On September 24, 1998 the Woodruff School honored Regents' Professor Emeritus Mario J. Goglia on the 50th anniversary of the signing of his contract to come to Georgia Tech. The day began with the dedication of a display case in his honor on the 4th floor of the MRDC building and continued with a luncheon at the Alumni Faculty House. Three former heads of the department of mechanical engineering, former members of the chancellor's office, and current faculty and staff attended, along with Mario's family. A short videotape of his life was shown and a number of people spoke about the influence that Mario had on their lives. We presented Mario with a scrapbook that contained pictures and tributes that we had received from some of his former students. About four weeks after the gala, Mario and his wife, Juanita, brought a cake to the Woodruff School to thank us for the event.

About Professor Goglia
Mario J. Goglia 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.

In 1953, Professor Goglia was named one of Atlanta's Hundred Leaders of Tomorrow by Time magazine. Later, he was on the Committee on Educational Objectives and Methods, which issued a report titled, "The Aims and Objectives of the Georgia Institute of Technology" (1954). In 1955, he was named one of the Institute's first three Regents' Professors. In 1996, he received the Renaissance Engineering and Science Award from the Stevens Institute of Technology.

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.

ANNUAL GEGENHEIMER LECTURE ON INNOVATION

An endowment given to the Woodruff School in 1995 established the Harold W. Gegenheimer Lecture Series on Innovation to support student programs that encourage creativity, innovation, and design. Through the lecture series and support of capstone design projects, students are exposed to processes that stimulate creativity and lead
to inventions and patents. Harold W. Gegenheimer (BME 1933) (left in the photo) has been associated with the printing industry all his life. As an inventor, he continues to express interest in the great advances made at his alma mater through innovative programs that link industry with graduate and undergraduate studies.

On October 29, 1998, John H. Hatsopoulos (right in the photo) delivered the 4th Harold W. Gegenheimer Lecture on Innovation on "Thermo Electron and the Spin-Out Business Design." In 1983, Thermo Electron developed a novel corporate structure that the Wall Street Journal called the "spin-out" strategy to differentiate it from the "spin-off" strategy increasingly practiced by large corporations in the United States.

In the spin-out structure, the parent's divisions with well-defined and promising business plans are incorporated into subsidiaries and a minority of the outstanding shares are sold to the public. The spin-out keeps the proceeds of the sale to finance its growth; thus the parent acts as an incubator. For a flat fee, it supplies a variety of services, such as banking, legal, taxation, accounting, management of human resources and risk, and it keeps a controlling interest indefinitely.

Since this structure was put in place at Thermo Electron, the return to stockholders has averaged 28 percent each year. Today, Thermo Electron makes everything from power plants to artificial hearts and analytical instruments. At present, the group includes 23 spin-outs - and spin-outs of spin-outs - with aggregate sales of over $4 billion, employing 24 thousand individuals in 23 countries.

The 1999 Gegenheimer Lecture on Innovation will be delivered by Richard Teedlink, Retired CEO of Harley-Davidson, Inc. on Thursday, October 21, 1999 in the Van Leer auditorium on the Georgia Tech campus. The lecture will begin at 11:00 a.m. and his theme will be "Our Learning Journey." Invitations will be mailed in September.

A Message from the Chair
WARD O. WINER

The only thing that is constant is change. In my last two mega tech columns I mentioned we had a number of exciting things happening and expected activities to get back to normal. I don't think they ever will get back to normal! Things continue to be exciting with new opportunities and programs coming over the horizon.

The semester calendar begins in mid-August. The faculty has developed a new curriculum that will make our programs even stronger. We have an enhanced design sequence that includes a graphics and visualization course at the freshmen level, which is expected to take students from hand sketching through computer modeling. We purchased a relatively low-cost rapid prototyping system for students to make simple engineering objects. We have a strong instructional laboratory component, and we will abandon the two-track thermal and mechanical systems curriculum. We decided that a broad program is the real strength of mechanical engineering; hence, all undergraduate students will have a good introduction to mechanical and thermal systems as well as materials utilization and manufacturing processes.

We continue to attract outstanding students to mechanical engineering. The average SAT scores of entering freshmen continue to increase, with mechanical engineering students slightly above the Georgia Tech average. Our undergraduate programs attract students who come to Georgia Tech thinking they want to be in some other discipline. Approximately 40% of our graduating seniors transferred into mechanical engineering. At the graduate level, we continue to compete well with other top institutions to attract outstanding students.

An exciting new venture for us is the master's degree on the Internet (see the article inside this issue). I agree with those who say that delivery over the Internet is probably not as good as face-to-face delivery in a classroom. I think that relatively few students will obtain the degree totally by the Internet. I expect that students will mix and match the various methods of delivery because all the degree and admission requirements are the same.

The entire Institute is going through a strategic planning exercise. We held a one-day retreat in Peachtree City to discuss a variety of issues and lay the groundwork for our strategic plan, which we expect to finish by September.
By the time you read this, our faculty who are interested in bioengineering will have moved into the new Parker Petit Institute for Bioengineering and Bioscience along with a number of their colleagues with like interests from around campus. The construction of MRDC II continues to progress well and we hope to move in mid-February 2000.

Georgia Tech is in the midst of a capital campaign, which has been sufficiently successful so that the goal has been increased twice; it is now set at $500 million. The Woodruff School's goal is $30 million, and as of June we passed the $23 million mark. A significant contribution toward the goal was a pledge gift from Ford Motor Company of $3.4 million. A portion of these funds will come to the School and will include two more anechoic chambers (we already have one made possible by a Ford gift).

Our major annual lectures continue to be highlights of the year (see the articles inside). George Heilmeier gave a thoughtful Woodruff Lecture about the future of the communications industry. The fall Gegenheimer Lecture was an outstanding success with John Hatsopoulos being a last minute substitute for George Hatsopoulos.

The Woodruff School will host the national Pi Tau Sigma convention in October. This is a major event for mechanical engineering honor students, and we anticipate as many as 300 delegates will attend. The national executive secretary of Pi Tau Sigma is Professor Farrokh Mistree and the Woodruff School is host to the national office.

In these columns, I often mention outstanding faculty and students but don't give enough attention to the outstanding support staff - we have 47 full-time staff members - that we have in the Woodruff School. This year Royal "Pete" Dawkins, the head of our finance office, received the Georgia Tech Administrative Staff Award, and Rona Ginsberg, editor of our publications and coordinator of our special events, received an Institute Outstanding Staff Performance Award. I want to thank them both for their contributions to our School and bring their accomplishments to your attention.

Please come by and visit us. If you have not been here for a number of years, you will be surprised at the changes in the Woodruff School.

OLIVER H. SALE, JR. NAMED DISTINGUISHED ALUMNUS

At this year's ME Spring Banquet, Oliver H. Sale, Jr. (BME '56) accepted a plaque in recognition of being named the 1999 Woodruff School Distinguished Alumnus. One of the responsibilities of this award is to speak at the banquet. He reminded the students never to give up on their dreams - he said he was not the best student when he was at Tech, but he still achieved great success because he believed that he could do it.

Mr. Sale was born in Washington, Georgia, which lies between Athens and Augusta. The family moved to Atlanta when Oliver was one year old. After graduating from North Fulton High School in 1952 he entered Georgia Tech. Mr. Sale said "he was raised to go to Tech" as his father did, and he studied mechanical engineering because he "was always interested in mechanical things so it seemed appropriate." During his four years at Tech, he was a member of Sigma Chi fraternity and was manager of the football team. He graduated in 1956 with a BME degree and was commissioned in the U.S. Air Force.

In 1960, upon leaving the Air Force, he began working with Industrial Fabricators. He purchased half of the company by 1969, and it merged with FESCO Inc. in 1970. The company built bulk materials handling systems for the crushed stone and paper industries. In 1985 the company merged with RETEC, Inc. and in 1988 he sold FESCO-RETEC to Consileum Bulk of Sweden. In 1989, Oliver Sale founded and became the president of FESCO International.

In 1971 he founded NORX, Inc., which distributes after-market parts to the mine and stone industries. The company operates in Georgia, South Carolina, North Carolina, and Alabama. Mr. Sale has been the chief executive officer from the founding of the company to the present.

Mr. Sale has long been an ardent supporter of Georgia Tech. From 1989 to 1990 he was president of the Georgia Tech Alumni Association and he has been a member of the Georgia Tech Foundation from 1994 to the present. He was elected to the Georgia Tech Academy of Distinguished Engineering Alumni in 1994. He was appointed to the Woodruff School Advisory Board in 1988 and he currently serves as chairman.
THE OUTSTANDING EDUCATOR AWARD

The first Woodruff School Outstanding Educator Award was given to William Z. Black, Regents’ Professor and Georgia Power Distinguished Professor. During his time at Georgia Tech - he started in fall 1967 as an assistant professor - Professor Black has been an outstanding educator. While he has continuously maintained a strong, funded research program over the course of his career, he has also maintained an outstanding record on all student evaluations. For as long as course evaluations have been done at Georgia Tech, he has consistently received evaluations in the 4.7 and higher range from students in both undergraduate and graduate courses. He has been the thesis advisor to fourteen Ph.D. students and forty master's degree students. Professor Black is the only faculty member at Georgia Tech who has received the Institute Outstanding Teacher Award twice during his career, in 1973 and again in 1989.

In addition to being an outstanding educator in the traditional sense, Professor Black has maintained an excellent research program resulting in numerous publications. He has served on a number of professional society advisory committees and has played a major role in the development of ampacity standards internationally. His contributions in the area of thermal effects in electrical and electronic systems are well recognized.

Professor Black is scheduled to retire in the summer of 2000. He has had a long and distinguished career at Georgia Tech as an educator, professor, and researcher. The selection of Professor Black as the inaugural recipient of this award helps to continue the tradition of outstanding education in the Woodruff School.

About the Award

The George W. Woodruff Outstanding Educator Award was created in 1999 to honor members of the School’s academic faculty who epitomize outstanding educators. The winner is announced at the annual ME Spring Banquet. In addition to a plaque, the educator will receive $5,000 in discretionary funds to use for professional development items such as travel, computers, and support of students. The winner will be invited to deliver the Woodruff School Outstanding Educator Lecture at an assembly of all Woodruff School members. Nominations were received from members of the Woodruff School, and the winner was selected by a committee that consisted of three Woodruff School faculty members, one member of the Woodruff School Advisory Board who is also an alumnus of the School, one representative of the Center for the Enhancement of Teaching and Learning, one undergraduate student, and one graduate student.

ANNUAL UNDERGRADUATE RESEARCH FAIR HELD

The Woodruff School held its third annual Undergraduate Research Fair in February 1999. The purpose of the fair is to put undergraduate students who wish to do research or laboratory work in touch with a faculty member who might have work for them to do. Approximately 100 students attended the fair. Dr. Bill Wepfer gave an overview of research in the School, and then faculty representatives from each of the research groups in the School presented a short overview of their area. The School also posts information on available positions to the student newsgroups. If you are an undergraduate student in the Woodruff School who is interested in doing research or laboratory work, send an e-mail to raymond.vito@me.gatech.edu with your qualifications and requirements.

HEILMEIER DELIVERS WOODRUFF DISTINGUISHED LECTURE

In April 1999, George H. Heilmeier, Chairman Emeritus of Telcordia Technologies delivered the Woodruff Distinguished Lecture before a capacity crowd in the Van Leer auditorium. Dr. Heilmeier's day began with a luncheon and discussion for about fifty Woodruff School students, faculty, and staff. He fielded many questions on telecommunications and education. After a tour of our facilities in the accompaniment of Dr. Winer, there was a prelecture reception for members of the GT administration and other invited guests. After this brief gathering we adjourned to the auditorium to listen to Dr. Heilmeier's slide-filled lecture titled: From POTS to PANS.com: Transitions in the World of Telecommunications for the Late 20th Century and Beyond.
He spoke about the forces that are driving us from the world of POTS (Plain Old Telephone Service) into the new world of PANS (Pretty Awesome New Services) and its implications. He discussed the technical, competitive, and customer driven changes in the structure, networks, and services of the telecommunications industry; the business of the next Internet; and implications for the training and practice of engineering.

If you did not attend the lecture, you still have the opportunity to view it from our web page at http://www.me.gatech.edu (open the video). If you watch/listen to the video of the lecture, please take a moment to let us know what you think of it.

Watch Your Mail
The transcript of this year's Woodruff Distinguished Lecture will be published within the next few months. Soon after it is printed and mailed we will also post it to our web site.

About Dr. Heilmeier
George H. Heilmeier is Chairman Emeritus of Telcordia Technologies (formerly Bellcore), a leading provider of communications software and professional services. He joined Bellcore in March 1991 as President and CEO, and he transformed the company into a global business. Dr. Heilmeier holds a B.S. in electrical engineering from the University of Pennsylvania and M.A., M.S.E., and Ph.D. degrees in solid-state electronics from Princeton University.

He joined RCA Laboratories in 1958, and became Head of Solid State Device Research in 1966. His work with electro-optic effects in liquid crystals led to the first liquid-crystal displays for calculators, watches, computers and instrumentation. In 1970, he was chosen as a White House Fellow to work on long-range research and development planning and technology assessment as a Special Assistant to the Secretary of Defense. (A more complete biography of Dr. Heilmeier)

ANNOUNCEMENT
We are very pleased to announce that the 2000 Woodruff Distinguished Lecture will be delivered by Dr. William Wulf, President of the National Academy of Engineering on Tuesday, April 25, 2000. He will speak about the image of engineers. More information will be available in the fall issue of mega tech and posted to our website under Calendar of Events.

Tech Offers First Internet Master's Degree in ME
In fall 1999, Tech will become the first university in the nation to offer a master's degree in mechanical engineering entirely via the Internet. Woodruff School faculty will teach all courses in this pioneering program using state-of-the-art streaming audio and video technologies, synchronized slides, simulations, and other multimedia. Internet instruction will include links to other web-based materials. Student-to-student and student-to-faculty interaction will occur using bulletin boards and the discussion capabilities of WebCT. Students enrolled in Internet classes must meet the same admissions requirements, adhere to the same rigorous academic standards, and will earn the same degree as their on-campus counterparts.

Most faculty teaching Internet courses have experience teaching these same courses in video format. The tuition for the on-line courses will be the same as for Tech's videotape-based courses. Additionally, students will have the flexibility and convenience of being able to take graduate courses in mechanical engineering online, via video, or on campus.

"Georgia Tech's approach to an on-line degree will be different," said Dr. Joe DiGregorio, Vice Provost for Distance Learning, Continuing Education, and Outreach. "No existing videotape will be used in the project; faculty working with instructional technologists will produce video that is designed with Internet delivery in mind."
The first two mechanical engineering courses under development for fall semester are Manufacturing Processes and Systems (ME 6222) taught by Professor Jonathan Colton and Linear Control Systems (ME 6401) taught by Professor Nader Sadegh. Tech will develop three additional mechanical engineering courses to be offered during spring semester of 2000, and four more courses will be offered during fall semester of 2000.

The Spring 2000 courses will be Applications of Thermodynamics (ME 6305) taught by Professor Sam Shelton, Nonlinear Control Systems (ME 6402) taught by Professor Nader Sadegh, and Vibration of Mechanical Systems (ME 6442) taught by Professor Jerry Ginsberg.

It will take approximately three years to develop, place online, evaluate, and refine 22 mechanical engineering courses. The courses then will be available online as long as there is demand. Ten of the 22 courses will be required for a master's degree in mechanical engineering.

"On-line delivery will allow us to improve upon our stature as one of the very best providers of distance-learning master's degrees in mechanical engineering," said Dr. William Wepfer, Professor and Associate Chair for Graduate Studies in the Woodruff School. "This also will enable Georgia Tech to attract a greater share of young and talented engineers who some day will be the captains of leading high-tech organizations."

Georgia Tech will work with on-line students, videotape-based students, on-campus students, and faculty to assess and evaluate the instructional quality of the new Internet degree program. Some on-campus students will be encouraged to take the on-line courses, thus providing additional input for the assessment process.

The Georgia Statewide Desktop Distance Learning Network, the Sloan Foundation, and Georgia Tech provide funding for the on-line master's degree in mechanical engineering.

For more information, send an e-mail request to web.program@me.gatech.edu or visit Online Programs.

HEIMLICH MANEUVERS AT TECH

Dr. Henry J. Heimlich, creator of the lifesaving Heimlich Maneuver, gave a special seminar at Georgia Tech on February 11, 1999. Sponsored by the Woodruff School and the Parker H. Petit Institute for Bioengineering and Bio science, Heimlich spoke about the process of creativity in biomedical engineering. He described the methods he has used to develop simple solutions to serious, fatal medical conditions and how this concept can be applied to biomedical engineering lifesaving research. Dr. Heimlich discussed the Heimlich Maneuver, which has saved the lives of thousands of choking and drowning victims, and is now being used to prevent and halt asthma attacks.
without using medication or to clear mucus from the lungs of cystic fibrosis patients.

In addition, he described the Heimlich Operation, which helps patients with an esophagus birth defect or those with cancer of the esophagus. He developed this operation in the 1950s and it was the first successful organ replacement. Dr. Heimlich also explained some of his other procedures, and he spent a lot of time answering questions from the audience.

To learn more about Dr. Heimlich, view the program of his lecture at http://www.me.gatech.edu (click on Publications).

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MELVIN CARTER ELECTED TO NATIONAL ACADEMY OF ENGINEERING

It is our great pleasure to announce that Melvin W. Carter, Neely Professor Emeritus of Nuclear Engineering and Health Physics, has been elected to the National Academy of Engineering, one of the highest honors that may be accorded to an engineer. Last year, he was elected to Georgia Tech's Engineering Hall of Fame.

His professional experience over the past 49 years includes: Consultant in international radiation protection (1988 to the present); Neely Professor of Nuclear Engineering and Health Physics (1980-88); organizer and director of the Office of Interdisciplinary Programs (1973-80); director of the Bioengineering Center (1972-80); director of the National Environmental Research Center of the U.S. Environmental Protection Agency in Las Vegas (1968-72); and director of the Southeastern Radiological Health Laboratory of the National Center for Radiological Health of the U.S. Public Health Service (1960-68).

At Georgia Tech, Dr. Carter developed and taught a large number of graduate and undergraduate courses. He has lectured in a number of countries, and developed and conducted several symposia, conferences, and a large number of technical short courses. His current interests include: pollutant pathways in the environment; policy formation in environmental protection and radiological protection; procedures and methods for environmental surveillance; management of radioactive wastes; radiological engineering evaluations for criteria and standards; and transportation of radioactive materials.

Dr. Carter is the author of more than 100 publications. Dr. Carter received his B.S. in civil engineering in 1949 and his M.S. in public health engineering in 1951, both from Georgia Tech. He received his Ph.D. in 1960 in radiological and environmental engineering from the University of Florida. His son, W. Brent Carter, is Associate Professor in the School of Materials Science and Engineering.
Dr. Suresh Sitaraman was named the 1999 Engineer of the Year in Education by Metro-Atlanta Engineers Week. (Faculty members in the Woodruff School have won the award in nine of the last 13 years.)

Sitaraman is an assistant professor in the Woodruff School and directs the Computer-Aided Simulation of Packaging Reliability (CASPaR) Laboratory. Sitaraman has guided nearly 15 doctoral and master's students, a postdoctoral fellow, and several undergraduate students. He was instrumental in creating the Computer-Aided Engineering lab, a state-of-the-art instructional facility.

Sitaraman holds three degrees in mechanical engineering: a bachelor's with honors from the University of Madras, a master's from the University of Ottawa, and a doctorate from the Ohio State University where he received the Graduate Council Outstanding Dissertation Award. Prior to joining Georgia Tech in 1995, Sitaraman was with IBM, where he was promoted from staff scientist to advisory scientist to senior scientist in four years.

Sitaraman's research focuses on thermomechanical modeling, design, and reliability of microelectronic packages. Last October, the National Institute of Standards and Technology (NIST) selected him as principal investigator of a project to find a solution to a challenge facing the electronics packaging industry - the continued reduction in size and increase in power and performance, without sacrificing reliability or increasing cost. NIST's Advanced Technology Program awarded a four-year, $9.9 million grant to a consortium led by Xerox Palo Alto Research Center (PARC), with Georgia Tech and Nanonexus, Inc. as partners, to develop a new "microspring" interconnect technology for testing and packaging microelectronic devices.

In 1998 Sitaraman won the Packaging Research Center Outstanding Faculty Education Award, and in 1997 he won a National Science Foundation CAREER Award.
McDOWELL NAMED TO CARTER PADEN CHAIR

Regents' Professor David L. McDowell was named to the Carter N. Paden, Jr. Distinguished Chair in Metals Processing. Dr. McDowell joined the Woodruff School in 1983 as an assistant professor. He is presently an Institute Fellow, Regents' Professor, and Director of the Mechanical Properties Research Laboratory. He serves as Chair of the Georgia Tech Materials Council and has a joint appointment with the School of Materials Science and Engineering.

Dr. McDowell completed his undergraduate work at the University of Nebraska and earned his master's and doctoral degrees in mechanical engineering from the University of Illinois at Urbana-Champaign. He is a Fellow of the ASME and the recipient of the 1997 Nadai Award, the most prestigious honor bestowed by the Materials Division of the ASME. His research concerns materials processing, deformation, and damage, with an emphasis on wrought and cast metals and their alloys.

About this Chair
Carter N. Paden, Jr., for whom this chair is named, graduated from Georgia Tech in 1951 with a bachelor's degree in industrial management. He is the Retired Chairman and Founder of SW Centrifugal, Inc. SW is a producer of large centrifugally cast copper-base alloy and high alloy steel castings. SW extensively machines these castings into component parts for a variety of heavy industrial machinery.

Carter and his wife, Janet, have been very generous over the years to Georgia Tech. In 1994, they established the Paden/Cheves Scholarship Fund which supports Mechanical Engineering students, and later they funded the Carter N. Paden, Jr. Distinguished Chair in Metals Processing.

FACULTY NEWS & HONORS

Said Abdel-Khalik won the 1999 ASEE Glenn Murphy Award in recognition of notable professional contributions to the teaching of nuclear engineering students. He served as the Campaign Chairman for the Woodruff School for the 1998-99 charitable campaign.

Janet Allen, Research Faculty, was elected vice president for Membership and Conferences of the International Society for the Systems Sciences (ISSS).

Daniel Baldwin won the ASME's Electrical and Electronics Packaging Division's Young Engineer Award and the 1999 Milton C. Shaw Outstanding Young Manufacturing Engineer Award from the Society of Manufacturing Engineers.

Wayne Book was recognized with a Georgia Tech Twenty-Five Year Service Award, and he was elected as the General Faculty Assembly Representative from the School.

Bert Bras was selected by the Society of Automotive Engineers to receive a 1999 Ralph R. Teetor Educational Award.

Robert Cargill was one of two nominees of the College of Engineering and the National Effective Teaching Institute to attend the 1998 NETI Conference in Seattle.

Jonathan Colton was named a Fellow of the ASME.

Steven Dickerson is the chairman of both the Georgia Tech Faculty Club and the Machine Vision Association of the Society of Manufacturing Engineers.

Iwona Jasiuk received tenure in the Woodruff School.

David Ku was named the 1999 Georgia Tech Faculty of the Year by the Graduate Student Senate.

Alan Larson was recognized with a Georgia Tech Twenty-Five Year Service Award.

Steven Liang was elected to the General Faculty Assembly and the Academic Senate.

David McDowell was named to the Carter Paden Chair in Metals Processing.

Robert Nerem received an NSF/ERC award to establish a center in tissue engineering. He was also elected a
Fellow of the American Academy of Arts and Sciences and to a 3-year term on the Council of the National Academy of Engineering.

**Rick Neu** won the Best Presented Paper Award from the ASTM Committee E08 on Fatigue and Fracture.


**Suresh Sitaraman** was named Engineer of the Year in Education for 1999 by Metro-Atlanta Engineers Week.

**Jeff Streator** won the 1998 Ruth and Joel Spira Award for Excellence in Teaching.

**Amyn Teja** (joint appointment) became a Fellow in the American Institute of Chemical Engineers.

**Charles Ume** was promoted to full professor in the Woodruff School, and he received the 1999 E. G. Bailey Award from the Instrument Society of America.

**Raymond Vito** was recognized with a Georgia Tech Twenty-Five Year Service Award.

**William Wepfer** was named a Fellow of the ASME.

**Ward O. Winer** was selected as the 1998 recipient of the Alumni Society Merit Award for the Department of Mechanical Engineering and Applied Mechanics at the University of Michigan. He was named to the Eugene C. Gwaltney, Jr. Chair in Manufacturing.

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**STAFF NEWS**

**Robert Cooper** joined the School as a Mechanical Technician III.

**Kenneth Cothran** joined the Woodruff School as an Administrative Assistant II for Technical and Support Services.

**Leonia Collins** joined the Woodruff School as an Administrative Secretary, serving as the receptionist for the administrative and finance offices.

**Betty Crumbley** served as the Charitable Campaign Assistant for the Woodruff School for the 1998-1999 campaign.

**Pete Dawkins** received the 1999 Georgia Tech Administrative Service Award.

**Mary Jo Kleine** accepted the position of Administrative Assistant II to provide support to Ray Vito and Bill Wepfer, Associate Chairs, Rona Ginsberg, Director of Publications & Public Relations, and Joan Kraft, Undergraduate Advisor.

**Lisa Manning** assumed a new position as Administrative Assistant II.

**John McCullough** received the School's Outstanding Achievement Award for Classified Employees for summer quarter 1998.

**Nancy Moody** was recognized with a Georgia Tech Ten-Year Service Award.

**Claudine Nickens** received the GWW Outstanding Achievement Award for Classified Employees for winter quarter 1999.

**Chelcea Harper Warren** received the Outstanding Achievement Award for Classified Employees for winter quarter 1998 and was then selected as the outstanding Woodruff School staff member of the year for 1998. She recently left the School for a position in Biomedical Engineering.
June Weddington was married and left her position as an Administrative Assistant II.

**TECH WINS TOP AWARD FOR TEACHING**

Georgia Tech won the 1999 Theodore M. Hesburgh Award for Faculty Development to Enhance Undergraduate Teaching and Learning. The award, which is given to one university each year, was created in 1993 by the Teachers Insurance and Annuity Association and the College Retirement Equities Fund to acknowledge and reward successful, innovative faculty development programs that enhance undergraduate teaching.

Georgia Tech was recognized for its alumni-funded Teaching Programs that help young faculty and graduate teaching assistants develop their teaching skills and become the best teachers possible. A new Senior Teaching Fellows Program gives mid-career faculty the opportunity to enhance their teaching skills. The $30,000 Hesburgh prize will be used to solicit support from a Georgia Tech reunion class to endow this new program.

**WARD O. WINER NAMED TO GWALTNEY CHAIR**

School Chair Ward O. Winer was appointed to the Eugene C. Gwaltney, Jr. Chair in Manufacturing. The Eugene C. Gwaltney Chair in Manufacturing Systems was established in 1986 by the Russell Corporation to honor its longtime chairman, Gene Gwaltney (BME 1940), by supporting a distinguished teacher and scholar in the area of manufacturing systems. This past year, the growth in the principal of the chair’s endowment allowed the establishment of a second Gwaltney Chair in Manufacturing; this is the chair held by Dr. Winer.

Dr. Ward O. Winer is the Chair of the George W. Woodruff School of Mechanical Engineering. He received a B.S.E., M.S.E., and Ph.D. from the University of Michigan and a Ph.D. from Cambridge University, England. After receiving his Ph.D., Dr. Winer returned to the University of Michigan where he served as a faculty member in Mechanical Engineering before joining Georgia Tech in 1969. He has been principal investigator on projects sponsored by the National Aeronautics and Space Administration, the National Science Foundation, the Office of Naval Research, the Department of Transportation, the Department of Energy, the Defense Advanced Research Projects Agency, and many industrial firms.

Dr. Winer has been the recipient of numerous awards, including the University of Michigan Alumni Society Merit Award from the Department of Mechanical Engineering and Applied Mechanics, the Sigma Xi Monie A. Ferst Memorial Award for Sustained Research from the Georgia Tech Chapter of Sigma Xi, the ASME Melville Medal, and the ASME Pi Tau Sigma Charles Russ Richards Award. He was also awarded the Tribology Gold Medal from the British Tribology Trust of the Institution of Mechanical Engineers, Institution of Production Engineers, the Royal Aeronautical Society, and the Department of Industry and Trade, Great Britain. In 1986, Dr. Winer was named Distinguished Professor at Georgia Tech and in 1995 and 1996 the American Society for Engineering Education honored him with the Benjamin Garver Lamme and Donald Marlowe Awards, respectively. He was elected to the National Academy of Engineering in 1988.

According to Dr. Jean-Lou Chameau, Dean of Engineering, "the appointment to the Gwaltney Chair brings with it my expectation that Dr. Winer will continue to provide strong leadership to the Woodruff School and, in particular, to the emphasis on manufacturing in both research and education. Dr. Winer has shown himself to be eminently qualified for such leadership, and I have no doubt as to his future success. I also expect he will maintain his prominent place in the community of tribologists and continue to support research and the education of graduate students in this important area of manufacturing."
**STUDENT HONORS**

Saniya Ahsan won the Pi Tau Sigma Outstanding Sophomore Award and the Georgia Tech Alumni Association Student Leadership Award for International Study.

Valerie Bennett won first prize in the GEM Consortium Summer Institute’s First Technical Paper Presentation. She was also recognized as an Outstanding GEM Alumni at the conference.

Charles K. Berkowitz was awarded a Georgia Tech Faculty Women’s Club Scholarship.

Kevin Michael Betts won the School’s Chair Award from the Woodruff School and the Phi Kappa Phi Scholarship Cup.

George “Chip” Butler received the GTA Award. Robert Dana Carpenter received the Robert Engineering Award.

Justin Collins won the DOE Fusion Science Fellowship.

Carolyn Conner is Georgia Tech’s only Rhodes Scholar. She received her BSME from West Virginia and her MS in Economics from Oxford University. Carolyn is also an NSF Fellowship winner.

Rebecca Covert (BSME MIT) came to Georgia Tech with extensive business experience in South America and Asia with HP. She is an NSF Fellowship winner.

Rick Cowan returned from his year in Washington, D.C. as an ASME Congressional Fellow. He was one of 53 fellows to be honored at the 25th anniversary of the ASME Federal Fellows Program, which seeks to bring engineering expertise into key areas of the U.S. government. Rick worked in California Congressman Dana Rohrabacher’s office.

Anh Dang won a U.S. DOE Integrated Manufacturing Fellowship.

Staci Davis received a scholarship from the Atlanta Chapter of the ARCS Foundation (Achievement Rewards for College Scientists).

Ty Dawson won a U.S. DOE Integrated Manufacturing Fellowship.

Rafael deCardenas won a GEM MS fellowship.

Marnico Deladisma won the Richard K. Whitehead, Jr. Memorial Award.

Charlene Demiel received a GEM MS Fellowship.

Stacey A. Dixon won the Imlay Foundation Scholarship from the ARCS Foundation, and received a UNCL-Merck Graduate Science Research Dissertation Fellowship.

Chad Duty won a U.S. DOE Integrated Manufacturing Fellowship and received the award for having the highest score on the Ph.D. qualifying exams.

Dathan Erdahl won a U.S. DOE Integrated Manufacturing Fellowship.

Brett Fennell was recognized as a GEM Ph.D. Fellow.

Dawn Foley received a scholarship from the Atlanta Chapter of ARCS.

Kristine Forsythe received the Society of Women Engineers/General Motors Foundation Graduate Scholarship. She received her undergraduate degree from the University of Illinois and is spending her first year as a graduate student at Georgia Tech Lorraine.

Jeffrey M. Fowler received the Woodruff School Outstanding Scholar Award, a Phi Kappa Phi Faculty Recognition Award, and an NSF Graduate Fellowship.

Harry Garner won an SAIC Best Paper Award. (Woodruff School graduate students won 4 of the 6 awards given to Georgia Tech students.)

Samuel Graham, Jr. received the Luther S. Long III Memorial Award in Engineering Mechanics.

Heather Gepford was awarded a 1999 American Nuclear Society Graduate Scholarship Award for a student in
the field of nuclear science and engineering.

Jonathan Gerhard received an honorable mention in the NSF graduate fellowship competition.

Jeremy Harvey received the Raytheon Ph.D. Fellowship.

Comas Haynes won the NSF/FACES Faculty Coupon Award.

Ping He received a Georgia Tech Faculty Women's Club Scholarship.

Reginald Hutchinson won a GEM MS Fellowship.

Ashley James received a scholarship from the Atlanta Chapter of the ARCS Foundation.

Sunji Jangha won a DOD NSDEG Fellowship.

Wayne Johnson participated in the Compact for Faculty Diversity's Institute on Teaching and Mentoring.

Stephanie Kladakis was selected as one of the ASME Graduate Teaching Fellows for the 1999-2000 academic year.

Kristopher Kozak won a DOD NSDEG fellowship. In addition, Kris won an honorable mention in the NSF graduate fellowship competition.

Leonard Lay received an appointment as Dual Degree Engineering Program Coordinator and Lecturer in Engineering at Spelman College.

Tim Charles Lieuwen won the American Institute of AIAA Graduate Student Award and an SAIC Best Paper Award.

Henry Lockett Hutson received the Samuel P. Eschenbach Memorial Award in Mechanical Engineering.

Stacy Imler won an NSF Graduate Fellowship.

Jacqueline Menchaca attended the Institute on Teaching and Mentoring.

Stephen Mewborn received the Georgia Tech Alumni Association Student Leadership Award for International Study.

Janna Mouw won an NSF Graduate Fellowship.

Brad Miller received the Luther S. Long III Memorial Award in Engineering Mechanics.

James Nichols received an honorable mention in the NSF graduate fellowship competition.

Chris Pascual won an Outstanding GTA Award.

Jenelle Piepmeier received the GE Faculty Coupon Award.

Gena Poe participated in the Compact for Faculty Diversity's Institute on Teaching and Mentoring.

Danielle Rose won a GEM MS Fellowship.

Orlando Ruiz attended the Institute on Teaching and Mentoring.

Laura Schaefer received the ASME/ASHRAE Advanced Energy Systems International Conference Best Paper Award.

Andrew Scholand won a U.S. DOE Integrated Manufacturing Fellowship.

Brian Schulz received a GEM MS Fellowship.

Mike Swinson won an NSF Graduate Fellowship, a Department of Defense NSDEG Fellowship, and a GEM Ph.D. Fellowship.
Serge William Tchikanda received a scholarship from the Atlanta Chapter of ARCS.

J. D. Thiele won the 1999 Sigma Xi Best Master's Thesis (Shreyes Melkote, advisor)

Thomas Tucker won the INTEL Fellowship.

Ken Veinot received the 1999-2000 Burton J. Moyer Memorial Fellowship from the Northern California Chapter and the National Chapter of the Health Physics Society. He received the Best Student Paper Award in Radiation Detection from the American Nuclear Society, Western Region. (GT students presented seven papers at the meeting.) He also received the 1998 Panasonic TLD Fellowship in External and Environmental Dosimetry.

Michael Woodmansee received an SAIC Best Paper Award.

Adele Wright won an SAIC Best Paper Award and the Best Paper Award at the University System of Georgia Research Symposium.

TECH'S FAB FIVE

Each year, the U.S. Department of Energy, through the auspices of the National Research Council, awards 12 fellowships for doctoral study to advanced graduate students. Typically, these are students who have just completed or are about to complete their master's degrees in the area of manufacturing. This fellowship program has been in existence for seven years. To date, the Woodruff School has had at least one student win each year, with the exception of last year. This year we hit the jackpot: Five of the 12 winners of the U.S. DOE Integrated Manufacturing Fellowships are Woodruff students. They are: Anh Dang (Dr. Charles Ume, advisor); Ty Dawson (Dr. Tom Kurfess, advisor); Chad Duty (Dr. Jack Lackey, advisor); Dathan Erdahl (Dr. Charles Ume, advisor); and Andy Scholand (Dr. Robert Fulton, advisor).

According to Dr. Bill Wepfer, Associate Chair for Graduate Studies, "this is an outstanding achievement for our graduate students, the mechanical engineering program in the Woodruff School, and for Georgia Tech." In fact, he refers to these students as "the fab five."

President's Scholars

Some 81 new President's Scholars will enter Georgia Tech in August 1999. They were selected from a field of 3,200 high school graduates. Every effort was made to choose the most outstanding student leaders who excelled academically and had the best communication skills. Below is a list of the Woodruff School's currently enrolled President's Scholars: Saniya Ahsan, Josh Bagwell, Jesse Barton, Matt Berrell, Adam Bierce, Brandon Bothe, Mike DeNicola, Justin Disney, Todd Evans, Neha Gandhi, Mike Gootman, Divya Gupta, Justin Hargrove, Jon King, Jeff Kock, Nathan Liddell, Tad Merriman, David Moeller, Erica Onsager, Ryan Reynolds, Lauren Schutz, Horace Smith, Marc Thames, Damon Underwood, and Lin Woodard.
The NE graduate program was a finalist in the 1998 ANS Student Design Competition. Dr. Stacey taught this class.

**IF YOU HAVE TECH STUFF, READ THIS**

It all started about a year ago when we began work on developing the display cases for the lobby floors of the MRDC building. Two of the cases were to be an early history of mechanical engineering, which meant an early history of Georgia Tech. We located a wonderful old print of campus to use as the background and then filled the cases with some terrific pictures (a sample is included here) and several artifacts. (For a glimpse of the contents, see About the Woodruff School.)

During this research and design process, we located archival pictures and some artifacts, but they are few. In fact, most of the old pictures are from the GT Library Archives and are found in the old Tech bulletins and catalogs. Most of the artifacts we located were under Butch Cabe's capable care.

Now we are looking to expand our collection and to display this Georgia Tech art in prominent places around the School. We need your help with this project. We are looking for photos of events, classes, shops/laboratories, interactions with faculty, sporting events, social activities, and student life during your stay at Georgia Tech. If you have some memories, through pictures and artifacts, that you would like to share with us, we would appreciate receiving these for display. We will add a small plaque of attribution so your generosity will be noted. After scanning, photos can be returned if you wish, so please don't be hesitant about their release.

Send materials to Rona Ginsberg, Director of Publications & Public Relations, Georgia Institute of Technology, 801 Ferst Drive, Atlanta, Georgia 30332-0405. If you have any questions about this program, call Rona at (404) 894-3214 or send an e-mail to rona.ginsberg@me.gatech.edu.

This is a wonderful opportunity to restore and preserve the history of mechanical engineering at Georgia Tech.

**NEWS FROM OUR ALUMNI**

**Thomas Alberts** (Ph.D. ME 1986) was promoted to Professor of Aerospace Engineering at Old Dominion University.

**Costas A. Balaras** (MSME 1985, Ph.D. 1988) was married in July 1998 to Dr. Elena Dascalaki. He was promoted in September to research scientist C level at the National Observatory of Athens (NOA) in Athens, a Hellenic national research organization. He is involved in European research programs on renewable energy sources and energy conversation in buildings. He can be reached at costas@env.meteo.noa.gr.

**T. E. Bearden** (MS NE 1971) published a paper titled "Use of Asymmetrical Regauging and Multivalued Potentials to Achieve Overunity Electromagnetic Engines" in the Journal of New Energy, 1(2), summer 1996, pp. 60-78. He may be reached at CTEC, Inc. in Huntsville, Alabama.

**Wei Chen** (Ph.D. ME 1995) was honored by the ASME International for outstanding achievement in mechanical engineering within ten years of graduation. She received the Pi Tau Sigma Gold Medal. She is an assistant professor of mechanical engineering at the University of Illinois at Chicago, and her main research area is engineering design and optimization.

**Christian B. Cook** (BME 1994) recently completed a Master's of International Business Studies from the University of South Carolina with a concentration in European business. As part of the degree, he worked in Germany for eight months as a marketing analyst with Bayer Pharmaceuticals. Upon graduation, he took a position with Deloitte & Touche Consulting Group as a Senior Consultant with a specialty in Mergers and
Acquisitions for automotive manufacturers. He currently resides in Detroit, Michigan. He may be reached at chrcook@dttus.com.

Steven Daneman (BME 1988, MSME 1990) left Hughes Space and Communications in El Segundo, California to accept a position as a Senior manufacturing Engineer with Powerwave Technologies in Irvine, California. He and his wife, Tammy, live in Westminster, California.

George Fadel (Ph.D. ME 1988) was promoted to the rank of associate professor and granted tenure at Clemson University. Amy Flatten (Ph.D. ME 1993) has accepted a position on the staff of the President's Science Advisor (Neal Lane).

Jorge E. Gonzalez (Ph.D. ME 1995), an Associate Professor of Mechanical Engineering at the University of Puerto Rico won a National Science Foundation Career Award. He may be reached at J0_GONZALEZ@RUMAC.UPR.CLU.EDU.

Darryl James (Ph.D. ME 1992) was promoted to associate professor and granted tenure at Texas Tech University.

Trevor Larsen (MSME 1990) was promoted to Director of Engineering Services for Disney's Animal Kingdom Region. He will act as the General Manager of the Support Services Division and lead the engineering team at two of Disney's resorts. He is a professional engineer. He worked for Disney since he graduated from Tech, starting with the WDW Ride & Show Engineering Group. Trevor resides in Florida with his wife, Madie.

Kemper Lewis (Ph.D. ME 1996) received an NSF Career Award. He is an assistant professor at SUNY at Buffalo.

Douglass Lyons (BME 1988), NASA Shuttle Test Director, sat in launch control for the shuttle launch with John Glenn aboard. He coordinates all ground operations and stays in touch with the crew. If something goes wrong, he can recommend a halt in the countdown. Douglass joined NASA between the Challenger disaster of 1986 and the Shuttle program's return to flight in 1988. As test director, he has handled four other Shuttle launches. He was interviewed by NASA while he was a student and went to work for them upon graduation. You may contact him through NASA Public Affairs at (281) 483-5111.

Kathleen Maher (BME 1983) has been appointed intellectual property counsel for Elan Corporation in their Dublin, Ireland headquarters. Elan is an Irish corporation specializing in the research, development, and manufacture of pharmaceutical products and drug delivery devices.

Greg McDaniel (Ph.D. ME 1992), Assistant Professor in the Department of Mechanical Engineering at Boston University, received a 1999 Ralph R. Teetor Educational Award from the Society of Automotive Engineers.

James Moore (Ph.D. ME 1991) was promoted to the rank of associate professor and granted tenure at Florida International University.

Pamela Norris (Ph.D. ME 1992) was promoted to associate professor and granted tenure at the University of Virginia. She was married in June 1999 to Eric Lamb.

John Oshinski (Ph.D. ME 1993) recently joined the faculty at the University of Virginia as an Associate Professor.

Fred Y. Robinson (BME 1986) was promoted to Supervisor of the Test Engineering Group at Fairchild Controls Corp. and recently celebrated his tenth anniversary with Fairchild. In the spring of 1998, he received his MS in System Engineering from the Johns Hopkins University. He and his wife and daughter live in Gaithersburg, Maryland. He may be reached at fyrfd@aol.com.

Pranab Saha (P.E., Ph.D. ME 1979) was named the 1999 Michigan Society of Professional Engineers (MSPE) Engineer of the Year. Dr. Saha is a co-owner of Kolano and Saha Engineers, Inc., a consulting engineering firm that specializes in acoustics, noise, and vibration control, with a strong emphasis in automotive acoustics.

Joel R. Schapira (BME 1971) was admitted to the bar of the U.S. Supreme Court on January 15, 1997. He is currently Associate General Counsel of the Defense Nuclear Facilities Safety Board, after having practiced as a nuclear engineer for 21 years with Naval Reactors. Mr. Schapira is also a member of the Virginia and D.C. bars and is a professional engineer in Virginia. He resides in Alexandria, Virginia.

Tim Simpson (Ph.D. ME 1998) received the Sigma Xi Best Doctoral Thesis Award (Farrokh Mistree, advisor) and upon graduation took a position as an assistant professor at Pennsylvania State University.

Susan Carlson Skalak (Ph.D. ME 1993) was promoted to associate professor and granted tenure at the University of Virginia.
Tirumalai S. Srivatsan (Ph.D. ME 1984) was recently named a Fellow of the ASME. He is a Professor of Mechanical Engineering at the University of Akron, where his work includes materials and mechanical engineering.

James Too (Ph.D. ME 1991) of the National Cheng Kung University in Taiwan, Taipei was promoted to professor last year.

David Veazie (Ph.D. ME 1993) was promoted to associate professor with tenure at Clark University.

NOTICE TO NSF
CAREER WINNERS

We love to boast about the accomplishments of our alumni. Six Woodruff School Ph.D. alumni have won the prestigious NSF Career Award, which is designed for promising young faculty members. Our alumni winners are: Wei Chen, assistant professor at the University of Illinois at Chicago; Matt Miller, assistant professor at Cornell University; Pam Norris and Susan Carlson Skalak, both associate professors at the University of Virginia; Jorge E. Gonzalez, associate professor at the University of Puerto Rico, and Kemper Lewis, assistant professor at SUNY-Buffalo.

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.

TECH RECEIVES BOOST FROM FORD

Georgia Tech recently accepted a check for $661,000 from the Ford Motor Company. The check is the first installment of a $3.4 million grant to be used over the next five years for student scholarships and other initiatives. Above, Barrett Carson (seated) Vice President of Development looks on as Frank Taylor, Ford's corporate sponsor, endorses a "mock" check on behalf of the company. Frank Taylor is the executive director of Material Planning and Logistics for Ford Motor Company, and he recently accepted the opportunity to be the corporate sponsor of Ford's partnership with...
Georgia Tech. The Woodruff School will use its share of the money to build two more anechoic chambers - part of its Integrated Acoustics Laboratory.

Check Received For New Scholarship Program

(left to right) John Jarvis, Chair of ISyE, Lee Bennett and Doug Monk (IE ’68), both from the Bonnell Company, and Ward Winer, Chair of the Woodruff School. A check in the amount of $75,000 was given to establish the Bonnell Scholarship Program to be split between the Woodruff School and the School of ISyE. The Bonnell Company consists of a number of business enterprises; the largest is the aluminum extrusion business, with four plants each in the U.S. and Canada. The company is one of the largest employers in the Newnan area and they need mechanical engineers to help in setting up technology, for the best utilization of existing equipment, and for their capital improvement projects.

JOIN US IN NASHVILLE

The International Mechanical Engineering Congress and Exposition will be held at the Opryland Hotel in Nashville, Tennessee from November 14-19, 1999. Come by Booth 511 of the Exhibition Floor to see our Woodruff School Show and to view samples of our new web-based master’s degree program in mechanical engineering. To locate our spot, look for the Georgia Tech/Woodruff School banners. You are also invited to visit our Hospitality Suite on Tuesday, November 16th.

The circled section of the accompanying picture shows Dr. Ward O. Winer, Chair of the Woodruff School, and Dr. Bill Wepfer, Associate Chair for Graduate Studies, at our booth on the exposition floor at last year’s conference in Anaheim, California.

DONOR LIST

The following people have generously given to the Campaign for Georgia Tech and designated their gifts for the Woodruff School. If you want to participate or learn more about the Woodruff School, call the Director of Development at (404) 894-3200.

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ME Spring Banquet

This year's banquet was held in the Gordy Room of the Wardlaw Center. Approximately 125 people attended the festivities to honor graduating seniors and fellowship winners. The School sponsored the banquet this year, so we had a good turnout.

The program included a welcome by Therian Harris and Eric Stallings, Woodruff School Student Advisory Committee co-chairs, dinner, and Musical MElchanics by Professor Paul Neitzel and some students playing guitar and singing. In addition to the distinguished alumnus award, Dr. Winer presented the first outstanding educator award, which was given to Professor Bill Black (see accompanying story).

Dr. Ray Vito, associate chair for undergraduate studies, recognized the undergraduate students and Dr. Bill Wepfer, associate chair for
graduate studies, recognized those graduate students who had received fellowships. Then the committee members presented the 1999 "Academia Awards," including: Golden Pillow Award (professor most likely to put you to sleep); Distinguished Professor Award (best all-around professor); Frequent Flyer Award (professor always on a business trip); Slave Driver Award (professor who gives the most work); Hazardous Office (professor with the messiest office; Pink Parachute Award (professor with the most drops); GQ Award (best dressed professor); Purple Shaft (worst shaft of the year); AAA Award (most helpful professor); and Legend in His or Her Own Mind. the names of the recipients are withheld from publication to protect their identity.

**GT MOTORSPORTS**

The Formula SAE competition was held in Pontiac, Michigan in May 1999. The team placed 16th overall, 3rd in the methanol fuel class, and was 10th overall in the design event. The car finished the endurance event for the first time in four years. In fact, the car turned 33 laps in endurance when it was only supposed to do 20. The event organizers lost track of it, apparently. There were 105 teams registered, and almost all made it into the final event (a record). The competition continues to grow, with teams from the U.S., Canada, Mexico, Puerto Rico, and the United Kingdom. The University of Leeds took 1st place in the design event.

**LETTERS TO THE EDITOR**

I enjoyed the last issue of mega tech and appreciate the work put into it. Thank you very much for the efforts and keep up the good work. Christian Cook (BME '94) via e-mail: chrcook@dttus.com

On Saturday I received my first issue of mega tech since leaving Georgia Tech and immediately sat down and read it 'from cover to cover.' I enjoyed it very much; it was like getting a letter from home! Thanks for putting me on your mailing list. Claudette Noel via e-mail: noel@kih.etc.

It is always very enjoyable to read through the newsletter and stay in touch with the school. It is a great effort. I would hope to see in the future some articles about the ongoing activities of the faculty and students, in terms of the work they are involved in. Even contributions from alumni may be interesting in order to give a perspective of the different paths that graduates have followed. It may also generate some interest to the new students in certain areas and help them out in their decisions for the day after graduation. C. A. Balaras via e-mail: costas@env.meteo.noa.gr.

I'm impressed by Issue 19 of mega tech, especially p. 5 and the story of the new anechoic chamber and its application to sound control. Bill Welch (BSME 1935)

You guys are doing a great job. Keep up the good work. I was in town for homecoming, and I just wanted to let you all know you did some terrific work. George P. Burdell (ME '30) via e-mail from gpburdell@mailcity.com.
NEW RESEARCH BROCHURE PUBLISHED

Dr. Ward Winer announced the publication in January 1999 of the School’s new research brochure. It presents a description of each of the research areas in the School: acoustics and dynamics; automation and mechatronics; bioengineering; computer-aided engineering and design; fluid mechanics; fusion; heat transfer, combustion, and energy systems; manufacturing; mechanics of materials; nuclear and radiological engineering and health physics; tribology. Then, through a bio-sketch of each faculty member we present a description of his or her research, background, education, and honors. You may view the book on our web page at http://www.me.gatech.edu/me/publicat/brochures.html or check out the new individual faculty pages through the Faculty/Staff Page. If you are interested in receiving a copy of the book, contact Dr. Bill Wepfer, Associate Chair for Graduate Studies at bill.wepfer@me.gatech.edu.

FIND A ROOMMATE ON THE WEB

MEGA, the Mechanical Engineering Graduate Students Association, has created a database to help new and current graduate students find a roommate. It is located on the web at http://www.me.gatech.edu/mega; click on Find Roommate. The database can be searched for a roommate based on many qualifying categories including, gender, pets, smoking, location, major, degree, and price. You can also add your name to the database for others to find and make contact. For security reasons, the database uses only an e-mail address for identification. Mailing addresses, phone numbers, and names are optional. Give it a try.

SCHOOL HOSTS JOBS SEMINAR

On May 17, 1999, Dr. Bill Wepfer, Associate Chair for Graduate Studies, hosted a special seminar for doctoral students who are looking for jobs in industry and academia. He began by telling the packed room about Wepfer's First Law: "Getting a job is a contact sport." John Hannabach, Head of Career Services, told the group that 83% of all graduate students have a job at their graduation: 2/3 go into industry and 1/3 in academic positions. (Wepfer said that in the Woodruff School, 70% of Ph.D.'s go into industry and the rest into academia.) This year there is an increase in the number of faculty positions. Most people who go into industry go to the big companies, but he told the students not to forget the smaller companies when doing a job search. Hannabach talked about the importance of the r sum and the cover letter; their purpose is to get an interview. He told the students to make sure they do their research to learn as much as they can about a potential employer. Finally, Hannabach told the students to remember this: "When you go for an interview bring ACE (attitude, competence, enthusiasm) with you into the interview and you will be successful."

Dr. Al Ferri, who heads the faculty search committee, talked about the r sum and curriculum vitae for those going into academia. The r sum should include research interests, publications, and teaching interests. Professor Imme Ebert-Uphoff talked about getting started early and the advantages of being a postdoctoral fellow. Finally, Wepfer told the students not to get discouraged if they get flush letters. "Remember," he said "one yes and 99 no's and you are batting 1000 -- you only need one yes."
CALENDAR OF EVENTS

For a complete Calendar of Events associated with the Woodruff School, please view our web page at http://www.me.gatech.edu/me/events/calendar.html.

August 1999
23  Fall 1999 semester begins
27  New Graduate Student, Faculty, Staff Cookout

September 1999
16  Outstanding Senior Recruiting Dinner

October 1999
21  Gegenheimer Lecture on Innovation
22  Advisory Board Meeting
22-24  Pi Tau Sigma National Meeting

December 1999
18  Fall Semester Commencement

January 2000
7  Spring Semester Classes Begin

GWW TEAM RAISES MONEY FOR M.S. SOCIETY

Members of the Woodruff School, grouped together as Team I Am ME, walked twice around Centennial Olympic Park on Saturday morning, May 22, 1999 to raise money for the Multiple Sclerosis (M.S.) Society. The walk took just 45 minutes, after a quick aerobic workout. The walk was supposed to be 3 miles, but we all agreed it seemed more like two - maybe it was just the fine company that made the walk go so quickly.

Our participation grew from the fact that a member of the Woodruff School family has been diagnosed with M.S. We set our goal at $1200; through many donations (to support the folks who were walking) and a bake sale held prior to the walk (this raised $283 and was organized by Vivian Johnson, Judy Diamond, and Gail Payne), we exceeded the goal, although we still don't know by how much.

Members of Team I Am ME were: Tasha Bradley, Judy Diamond, Rona and Jerry Ginsberg, Jacek and Barbara Jarzynski, Jim Martin, J. C. Murphy, Claudine Nickens (and a friend), Gail Payne, Cosetta Williams, Melinda Wilson (and a friend), and Ward and Mary Jo Winer. Those who couldn't walk, donated goodies to the bake sale. purchased their share of cake and cookies, or sponsored someone who was walking. This is the first time that the School participated in such a community event as a team, and we plan to do it again next year.

_mega tech_ is published twice a year by the
George W. Woodruff School of Mechanical Engineering
at Georgia Tech.

Editor: Rona A. Ginsberg
For more information about programs in the School, please contact:

Ward O. Winer, Chair