Another first for the Woodruff School was the joint unveiling of the student competition cars when GT Motorsports (formula SAE) and GT Off-Road (Baja SAE) presented their new cars. This was a practice run of their marketing presentations before the two teams entered a competition.
A NOISY GEGENHEIMER LECTURE ON INNOVATION

Dr. Jim West, Research Professor at Johns Hopkins University in Baltimore, gave the 2008 Harold W. Gegenheimer Lecture on Innovation. In his lecture: Noise in Hospitals: Effects and Cures, he talked about the significant problem of noise, even in new construction. High noise levels in hospitals can potentially contribute to stress and burnout in hospital staff, reduced speed of patient wound healing, and there is concern that hospital noise can negatively affect speech communication and cause an increased number of medical errors. Dr. West’s work is a collaboration with industry to develop new materials to solve or mitigate the noise problems in hospitals.

Prior to coming to his current position, Dr. West was a Bell Laboratories Fellow at Lucent Technologies. He holds more than 50 U.S. and about 200 foreign patents on various microphones and techniques for making polymer electrets and transducers. He was inducted into the National Inventors Hall of Fame in 1999 for the invention of the electret microphone. He is a member of the National Academy of Engineering; a Fellow, past President, and past member of the Executive Council of the Acoustical Society of America; and a Fellow of the IEEE.

To listen to Dr. West’s lecture go to our home page at www.me.gatech.edu and click on the Gegenheimer Lecture button.

A TIMELY WOODRUFF DISTINGUISHED LECTURE

The first Woodruff Distinguished Lecture was given in 1990; the purpose of the lecture is to honor an engineer who has made a significant contribution to society and to provide a forum for that person to interact with the Georgia Tech community, especially students. To that end, Dr. Bernard Amadei, Founder of Engineers Without Borders—USA, Director of the Engineering for Developing Communities Program, and Professor at the University of Colorado, gave the 2008 Woodruff Distinguished Lecture in the Ferst Center for the Arts. He spoke on The Role of Engineers in Poverty Reduction: Challenges and Opportunities. His lecture presented the challenges and opportunities associated with practicing engineering in the developing world and the education of engineers through organizations such as Engineers Without Borders. The lecture also discussed the importance of integrating engineering with nonengineering disciplines when addressing the needs of developing communities.

Dr. Amadei’s interests are in sustainability and international development. His work has been featured on National Public Radio and in Time Magazine. He is the recipient of several awards, including a co-recipient of the 2007 Heinz Foundation Award for the Environment and in 2008 he was elected to the National Academy of Engineering. To listen to Dr. Amadei’s lecture, go to the Woodruff Distinguished Lecture page on our web site at www.me.gatech.edu.

WOODRUFF SCHOOL WELCOME SOCIAL

During the fall term, we held a Woodruff School Welcome Social that was attended by about 1500 of our undergraduate and graduate students, faculty, and staff on the Burdell Plaza near the Love Building. Mayfield ice cream was served by Woodruff School faculty members, Buzz interacted with the attendees, a representative from Interactive Attractions turned out delightful balloon creations, tee-shirts were distributed, and student competition groups displayed their cars and robots and recruited new members.
Education and discovery are the most important investments we can make in our Country's and the World's future. As I provide leadership to the Woodruff School I see students working toward their Georgia Tech degrees, I see faculty, graduate students, and staff engaged in research to meet important societal needs, and I see commitment, passion and excellence wherever I turn. While our students are obviously concerned about their immediate opportunities in the job market, they remain very optimistic about their longer term opportunities. In fact, our undergraduate mechanical and nuclear engineering enrollments remain at or near all-time high levels. The old adage about how good organizations prosper and become stronger in tough times was never more true than now. A few examples:

Faculty members, Craig Forest and Ray Vito, were instrumental in creating the “InVenture Prize Competition.” This Georgia Tech-wide initiative (www.inventureprize.gatech.edu) engages students in the process of invention and the creation of new products. Their longer term plan is to initiate a fertile culture for Tech students to develop their creative and entrepreneurial talents. The preliminary round of the Inaugural Competition was conducted in January and the finals were held in March. It is expected that the results of the competition will result in patentable activity and it has already stirred the attention of venture capitalists.

The Woodruff School is in the midst of a reorganization that will upgrade service capabilities provided to our faculty and students. We are especially focused on upgrading our high-performance computational capabilities to assure our continued competitiveness.

Our faculty planned two major research workshops for Spring term: One jointly with Biomedical Engineering in the area of biomechanics and health and the other in the area of renewable energy. These activities will focus our efforts on expanding our research programs and will complement emerging national priorities.

We continue to recruit outstanding faculty in areas of importance to both our education and research programs. The “best and brightest” has been our norm. This will continue.

We are embarking upon a strategic planning process to guide our efforts over the next five-year period. We are intent on maintaining our national and international leadership and this effort will set the benchmarks for the next period. We are tremendously proud of the many accomplishments of our faculty, staff, and students. We are intent on continuing this legacy.

What do I ask of you?

Foremost is your advocacy for education at all levels. Our economy will recover and I simply ask that you advocate for continuing investments in education. Specifically, I also am convinced that Georgia Tech’s engineering programs represent an outstanding resource in our present economy.

I ask for your continued financial support. Our alumni and friends are among the most loyal in the world. I realize that many are now in a position that precludes such support. But for those of you that can—it is needed more than ever. If you cannot, please continue to know that we are as loyal to you as each of you has been to us. If there is anything the Woodruff School can do for you we stand ready.

Bill Wepfer
Eugene C. Gwaltney, Jr. Chair
The George W. Woodruff School of Mechanical Engineering

CLASS OF 2009 RECOGNITION RECEPTION

This new event honored the achievements of all 2009 spring and summer term graduates receiving B.S., M.S., or Ph.D. degrees from the Woodruff School. There were brief talks by the Woodruff School’s Distinguished Alumnus and our Zeigler Outstanding Educator to inspire the graduates as they leave Georgia Tech to make an impact on and better our society. Brandon Kearse (BSME 2009) was the undergraduate student speaker and Matthew Rogge (Ph.D. ME expected in summer 2009) was the graduate student speaker. There were opportunities to meet the School Chair and some of the faculty and staff who helped the students along the way to graduation. Attendees included friends and family from many states, including California, Florida, Georgia, New York, New Jersey, North Carolina, South Carolina, and Tennessee, and countries such as Columbia, Dominican Republic, and France.
WELCOME PRESIDENT PETERSON

G. P. “Bud” Peterson was selected by the Board of Regents of the University System of Georgia to become the eleventh president of Georgia Tech, effective April 1, 2009. The Woodruff School is also very proud that President Peterson has accepted an academic appointment as a Professor of Mechanical Engineering. Before coming to Georgia Tech Dr. Peterson was the chancellor of the University of Colorado at Boulder. Prior to that, he served for six years as provost at Rensselaer Polytechnic Institute in Troy, New York.

Dr. Peterson earned a bachelor's degree in mechanical engineering in 1975, a bachelor's degree in mathematics in 1977, and a master's degree in mechanical engineering in 1980, all from Kansas State University. He also earned a doctorate in mechanical engineering from Texas A&M University in 1985.

A distinguished scientist, Dr. Peterson was selected in 2008 by President George W. Bush to serve on the National Science Board through 2014. The Board oversees the National Science Foundation and advises the President and Congress on national policy related to science and engineering research and education. Throughout his career, Dr. Peterson has played an active role in helping to establish the national education and research agendas, serving on numerous industry, government, and academic task forces and committees. He also served as a member of a number of congressional task forces, research councils, and advisory boards, including the Office of Naval Research, the National Aeronautics and Space Administration, the Department of Energy, the National Research Council, and the National Academy of Engineering. More recently, Dr. Peterson served as a member of the Board of Directors and Vice President for Education for the American Institute of Aeronautics and Astronautics. He is currently serving on a number of national accreditation agencies including the American Association of Colleges and Universities, the Middle States Commission on Higher Education, and the New England Association of Schools and Colleges, with a focus on improving and assessing outcomes for higher education.

President Peterson is a fellow of both the American Society of Mechanical Engineers, and the AISS. He is the author or co-author of 14 books or book chapters, 165 referred journal articles, and more than 140 conference publications. He also holds eight patents. He has served as editor or associate editor for eight different journals, and is currently serving on the editorial advisory board of two others. He is a member of Pi Tau Sigma, Tau Beta Pi, Sigma Xi, and Phi Kappa Phi. Professional society awards include the Ralph James and the O. L. Andy Lewis Award from the ASME, the Dow Outstanding Young Faculty Award from the American Society for Engineering Education, the Pi Tau Sigma Gustus L. Larson Memorial Award from the ASME, the AIAA Thermophysics Award, the ASME Memorial Award, the AISS Sustained Service Award, and the Frank J. Malina Award from the International Astronautical Society.

In the Woodruff School, he will be associated with the Heat Transfer, Combustion and Energy Systems research group. His research interests are phase change heat transfer, thermal control of electronic components and spacecraft systems, and conduction and thermal contact resistance. He will maintain a research laboratory in the Love Building.

President Peterson was born September 1, 1952 in San Francisco, and raised in Prairie Village, a suburb of Kansas City, Kansas. He and his wife, Val, have four adult children.

MEET THE 2009 WOODRUFF SCHOOL DISTINGUISHED ALUMNUS

Bill Thacker (BME 1967) is the former Chairman and CEO of TEPPCO Partners, L.P., a four billion dollar publicly traded pipeline, petroleum storage and crude oil marketing company located in Houston. He started his 40-plus year career in the energy sector in 1967 with Unocal Corporation as a refinery engineer in Beaumont, Texas. He served the energy industry in numerous positions including Chairman of the Executive Committee of the Association of Oil Pipelines and as a Director of the American Petroleum Institute. After retiring from full-time responsibilities in 2002, he continued his industry involvement by becoming a corporate director for two energy companies in Houston and a merchant electrical power producer in Atlanta. He is also President of Montgomery County, Texas Habitat for Humanity.

A sixth generation Georgian from Cherokee County, he spent his youth in the Atlanta area before graduating from Georgia Tech in 1967 with a bachelor's degree in mechanical engineering. He went on to earn his MBA from Lamar University and is a graduate of the Executive Development Program at The Kellogg Graduate School of Business at Northwestern University.

A supporter of Georgia Tech since graduation, Bill Thacker has been a member of the Roll Call for 42 consecutive years. He served ten years on the Woodruff School Advisory Board and is a member of the College of Engineering Academy of Distinguished Engineering Alumni and the Georgia Tech Founders’ Council. He was on the Houston area steering committee for The Campaign for Georgia Tech and he and his wife Susan have funded Presidential Scholarships for minority students in the College of Engineering.

Bill Thacker lives in Montgomery, Texas about 50 miles north of Houston with his wife Susan, also from Atlanta and an Emory graduate. They have a son in Austin and a daughter in Houston, and five grandchildren. Bill plays a little golf and travels with Susan when they get a chance. A self-confessed “gearhead” since high school, he enjoys automobiles, especially racing his vintage 1975 BMW.
Dr. Jerry H. Ginsberg retired after 28 years on the faculty of the Woodruff School. He came to Georgia Tech in 1980 as a Professor, and in 1988 he became the first holder of the George Woodruff Chair in Mechanical Systems. Prior, he was an Assistant and Associate Professor at Purdue University (1969-1980), and during that time, he spent a sabbatical year in Nancy, France at the Ecole Nationale Superior de Electricite et de Mecanique as a Fulbright Scholar. He is a graduate of the Bronx High School of Science, and in 1965 received a B.C.E. from The Cooper Union, and the M.S. and the E.Sc.D. in 1966 and 1970, respectively, both from Columbia University.

Dr. Ginsberg's research areas are very broad and have changed regularly to suit his interest and observations as to where he and his students might have the greatest impact. His work is generally devoted to finding mathematical and computational solutions that are more efficient, and providing greater insight, than the standard finite element and finite difference techniques.

Many experiments have been carried out to support theoretical results he and his students have obtained. His research is in the broad area of Acoustics and Dynamics, including structural vibrations and acoustics; dynamics; modal identification; and turbomachinery diagnostics.

Dr. Ginsberg received several awards during his tenure at Georgia Tech, including: The Trent-Crede Medal from the Acoustical Society of America (2005) for outstanding contributions to the science of mechanical vibrations and shock; the Per Bruel Gold Medal for Noise Control and Acoustics for significant contributions as a scientist and as an educator from the American Society of Mechanical Engineers (2007); the Archie Higdon Award, and was a Woodruff School Faculty Fellow.

Dr. Ku is a Fellow of the American Institute for Medical and Biological Engineering, a licensed physician in Georgia, and the holder of five U.S. patents. He won the Gustus L. Larson Memorial Award and the Y.C. Fung Young Investigator Award (Bioengineering Division), both from the ASME, received a National Science Foundation Presidential Young Investigator Award, and was a Woodruff School Faculty Fellow.

Dr. Ku is interested in cardiovascular pathophysiology, unsteady three-dimensional fluid mechanics, medical implants, and commercialization of university research. His basic research focuses on acute coronary syndrome from plaque rupture due to collapse and platelets sticking under high shear stress. His projects span device design and development of bench tests to predict clinical performance. Dr. Ku teaches entrepreneurship and product development to bring technological solutions to the bedside.

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Said Abdel-Khalik was elected Vice-Chairman of the Advisory Committee on Reactor Safeguards (ACRS) of the United States Nuclear Regulatory Commission. He is the first Georgia Tech faculty member to be appointed to the ACRS.

Scott Bair received the 2009 International Award from the Society of Tribologists and Lubrication Engineers. This is the Society's highest technical honor, recognizing outstanding contributions to tribology, lubrication engineering, or allied fields. In addition, he received the Naval Research Laboratory's Berman Best Paper Award for 2008 in fundamental science from the Chemistry Division for a paper in which he was a major contributor. Scott also won this award in 2007.

Gang Bao and Dave Trivett were recognized with a Georgia Tech ten-year service award at the 2009 Faculty/Staff luncheon.

Jon Colton is a member of the World Health Organization Technology and Logistic Advisory Committee. The committee advises the Director of the Department of Immunization, Vaccines and Biologicals.

Suman Das was named a Woodruff School Faculty Fellow (2009-2013). This award supports the scholarly activities of mid-career faculty. He was also named the 2008 Outstanding Young Mechanical Engineer from the University of Texas Mechanical Engineering Academy of Distinguished Alumni.

Levent Degertekin was a National Academy of Engineering Frontiers of Engineering Symposium Invited Participant. In addition, he became an associate editor of the IEEE's Transactions on Ultrasonics, Ferroelectrics, and Frequency Control.

Chaitanya Deo received a Faculty Development Grant from the Nuclear Regulatory Commission.

Jeff Donnell was promoted to Senior Academic Professional. He is the coordinator of the Frank K. Webb Program in Professional Communication.


Al Ferri was elected to the grade of Fellow in the American Society of Mechanical Engineers.

Andres Garcia won the class of 1934 Outstanding Interdisciplinary Activity Award at the 2009 Georgia Tech faculty/staff luncheon. Also, he will serve as mentor to a BME undergraduate student who received a scholarship as part of the Beckman Foundation Undergraduate Scholars Program.

Srinivas Garimella was the recipient of the 2008 Thomas French Achievement Award of the Department of Mechanical Engineering at Ohio State University. This award is given to an alumnus who has distinguished themselves as an educator. In addition, he was appointed Associate Editor of the ASME Journal of Heat Transfer, beginning in 2009.

Sam Graham was elected to the Institute General Assembly.

Itzhak Green is the recipient of the 2009 Captain Alfred E. Hunt Memorial Award from the Society of Tribologists and Lubrication Engineers for his paper, “The Thermoelectric Behavior of Thrust Washer Bearings Considering Mixed Lubrication.”

Bob Guldberg has been elected Chair-Elect of TERMIS North America. TERMIS is the Tissue Engineering and Regenerative Medicine International Society. Bob will become the chair in 2012 of the North American region.

Yogendra Joshi received the 2009 IEEE Semi-Therm Significant Contributor Award and received a 2008 IBM Faculty Award that “recognizes the quality of your program and its importance to our industry.”

David Ku received the Sigma Xi (Georgia Tech Chapter) Best MS Thesis Advisor Award for graduate student Laura Lee Farrell.

Angela Lin was promoted to Research Engineer II. She is in the bioengineering area.

J. Rhett Mayor won the 2009 Society of Manufacturing Engineers John G. Bollinger Outstanding Young Manufacturing Engineer Award.

David McDowell was elected to the grade of Fellow in ASM International for “advancing the state of knowledge in microstructure property relationships of structural materials.” He was selected as the 2009 Distinguished Alumnus from the Department of Mechanical Science and Engineering at the University of Illinois.

Shreyes Melkote was appointed Associate Director of the Manufacturing Research Center. He will help steward the Manufacturing Education Program, and play a continuing leadership role in the Precision Machining Research Center.

Farrokh Mistree was invited to be one of the keynote lecturers at the 90th anniversary celebration in November 2009 of continuous education in mechanical engineering and naval architecture at the University of Zagreb.

Bob Nerem received the Founders Award from the National Academy of Engineering. Also, he won the 2009 Georgia Tech Class of 1934 Distinguished Professor Award, the highest award given by the Institute.
Chris Paredis received a Royal Academy of Engineering Distinguished Visiting Fellowship. Raghun Pucha and Christine Valle were selected to participate in the inaugural group of the Class of 1969 Teaching Scholars by the Center for Teaching and Learning at Georgia Tech.

Karim Sabra received the 2009 A. B. Wood Medal from the Institute of Acoustics (Great Britain) for “distinguished contributions to the application of underwater acoustics.” The prize was named after Albert Beaumont Wood, and is presented in alternate years to European and North American scientists. Dr. Peter Rogers, the Rae and Frank Neely Chair in Mechanical Engineering was the recipient of this award in 1979.

Richard Salant will receive the Mayo D. Hersey Award at the ASME/STLE International Tribology Conference in Memphis, Tennessee in October 2009. This award was established in 1965 in recognition of distinguished and continued contributions over a substantial period of time to the advancement of lubrication science and engineering.

Suresh Sitaraman received a Sigma Xi (Georgia Tech Chapter) Sustained Research Award.

Hazel Stevens is a Research Scientist I, working in the bioengineering research group with Bob Guldberg.

Jun Ueda is the co-recipient of the 2009 Early Academic Career Award in Robotics and Automation from the IEEE Robotics and Automation Society.

Minami Yoda was appointed a consultant to the Air Force Scientific Advisory Board.

Evan Zamir had a paper selected for Faculty of 1000 Biology. This is an online service that evaluates the most interesting papers published in the biological sciences.

WE CONTINUE TO GROW: MEET OUR NEW FACULTY MEMBERS

Gang Bao is a courtesy joint appointment in the Woodruff School. He holds the Robert A. Milton Chair in Biomedical Engineering in the School of Biomedical Engineering and is a College of Engineering Distinguished Professor. He received his Ph.D. in 1987 from Lehigh University. His areas of research are biomolecular engineering, biomaterials, molecular imaging, and molecular biomechanics.

Baratunde Cola began at Georgia Tech in April 2009 as an Assistant Professor in the area of heat transfer. He received his Ph.D. from Purdue University in 2008 and did his undergraduate work at Vanderbilt University.

Craig Forest returned to Georgia Tech as an Assistant Professor in fall 2008. Craig received his bachelor’s degree in 2001 from the Woodruff School and his Ph.D. in 2007 from MIT. Prior to Georgia Tech, he completed a postdoctoral research fellowship in genetics at Harvard University. His research is in manufacturing and bioengineering.

David Hu joined the faculty as an assistant professor in the area of fluid mechanics. Prior, he was an instructor in mathematics and a postdoctoral fellow at the Courant Institute of Mathematical Science at New York University. He received his Ph.D. in mathematics from MIT in 2005. He will have a courtesy joint appointment with the School of Biology.

Jianxin (Roger) Jiao began at Georgia Tech as Associate Professor at Georgia Tech Savannah in fall 2008. His area is computer-aided engineering and design. He received his Ph.D. in 1998 from Hong Kong University of Science and Technology. Prior, he was an Assistant Professor at Hanyang University in Singapore.

Satish Kumar came to Georgia Tech as an Assistant Professor in January 2009. He received his Ph.D. from Purdue University in 2008. His area of research is computational heat transfer.

Leon McGinnis, Eugene C. Gwaltney Professor of Manufacturing Systems in the School of Industrial and Systems Engineering, has received a courtesy joint appointment in the Woodruff School. He was the Director of the Computer Integrated Manufacturing Systems Program from 1988 to 1997, the Associate Director of the Manufacturing Research Center 1995-present), and is currently the Director of the Product/Systems Lifecycle Management Center.

Massimo Ruzzene, Associate Professor of Aerospace Engineering, now has a courtesy joint appointment in the Woodruff School. Before coming to Georgia Tech in 2002, he was a member of the faculty at the Catholic University of America. He received his Ph.D. in 1999 from Politecnico di Torino in Italy. His research interests focus around wave propagation in periodic materials and systems.

Todd Sulchek came to Georgia Tech as an assistant professor in fall 2008. He received his Ph.D. in applied physics from Stanford University in 2002. His research areas are MEMS and bioengineering.

Jun Ueda started at Georgia Tech in 2008 as an assistant professor. He received his Ph.D. from Kyoto University in Japan. Dr. Ueda is the new faculty advisor to the GT RoboJackets student competition group.
**NEWS FROM OUR ALUMNI**

**Erik Blasch** (MSME 1994) is an Electrical Engineer at the Air Force Research Lab at Wright Patterson Air Force Base in Dayton, Ohio; Major at the Air Force Office of Science Research (AFOSR) in Arlington, Virginia; and Adjunct Professor in EE/BME at Wright State University, also in Dayton. He was elected to the grade of Fellow in SPIE for contributions in information fusion and automatic target recognition.

**Cletus M. Bost, Jr.** (MSME 1970) recently joined Exterran Corporation as Manager of Business Technology in their Process and Treating Engineering Services Group in Broken Arrow, Oklahoma. Exterran is a major supplier of equipment and services to the energy industry, particularly oil and gas processing. His previous experience was 27 years in the oil and gas industry with ARCO, UNOCAL, Tosco, Phillips Petroleum and ConocoPhillips.

**Laurent Capolungo** (Ph.D. ME 2007) is currently a Postdoctoral Research Fellow at Los Alamos National Laboratories in New Mexico. In 2010, he will join the Woodruff School faculty as an Assistant Professor at Georgia Tech Lorraine in Metz, France.

**Wei Chen** (Ph.D. ME 1995) was elected to the grade of Fellow in the American Society of Mechanical Engineers for “important contributions to the field of engineering design in both theory and computational techniques.”

**Yong Chen** (Ph.D. ME. 2001) received the best paper award at the ASME Computers and Information Engineering Conference in New York. After graduating from Georgia Tech he worked at 3D Systems until 2006, when he became an assistant professor in the Epstein Department of Industrial and Systems Engineering at the University of Southern California.

**Benedict A. Eazzetta** (BNE 1986, MSME 1987) was a recent inductee to the College of Engineering Academy of Distinguished Engineering Alumni. He is President of International Operations of Rolta India Limited, a leading multinational technology services provider serving North America, Asia/Pacific, Europe, and the Middle East.

**Georges Fadel** (MSICS 1978, Ph.D. ME 1988), Professor of Mechanical Engineering at Clemson University, was selected by the Dean to receive the Exxon Mobil Employees Endowed Chair in Engineering for his contributions to the university and for his professional achievements in the field of design.

**Rafael Fanjul** (BME 1985, MSEE 1986, PE) is a Navigation Systems Engineer at Raytheon Missile Systems in Tucson, Arizona. In winter quarter 1983, he took Dr. Wepfer’s Transport Phenomena class, and remembers two things: The final exam beer problem and the advice that Dr. Wepfer gave “to me that I was graduate student material.” He received his Ph.D. in Electrical Engineering from the University of Florida in December 1996.

**Tim Ferguson** (MSME 2000, Ph.D. ME 2004) is manager of Hypersonic Structures at Southern Research Institute in Birmingham, Alabama. Hypersonic Structures recently received Southern Research Institute’s Team Excellence Award for technical and programmatic achievements accomplished in 2008.

**Peter Friedman** (BME 1984, MSME 1991) completed his Ph.D. in mechanical engineering at Johns Hopkins University in 2002, the same year he retired from the Navy. Peter is now an Associate Professor of Mechanical Engineering at the University of Massachusetts Dartmouth.

**Walt Garcen** (MSME 1992) is currently employed as a mechanical engineer at NASA Goddard Space Flight Center. His present responsibilities involve hardware design for an upcoming shuttle flight for the International Space Station. When he is not working, his hobbies include motorcycling and snowmobiling.

**Erika Geist** (BME 1996) was a 2008 inductee into the Council of Young Engineering Alumni at the College of Engineering Awards dinner in November. She is Engineering Manager for Marine Generals at Caterpillar Inc., where she is responsible for new product development, design-to-order engineering support, and product maintenance.

**Neal Hall** (MSME 2002, Ph.D. ME 2004) is now an assistant professor in the Department of Electrical and Computer Engineering at the University of Texas at Austin. Prior, he was a postdoctoral fellow at Sandia National Laboratories.

**Yong Huang** (Ph.D. ME 2002) received the National Instruments Outstanding Young Investigator Award at the 2008 ASME International Symposium on Flexible Automation.

**Robert Jackson** (BSME 1998, MSME 2000, Ph.D. ME 2004) was promoted to assistant professor and received tenure in the Department of Mechanical Engineering at Auburn University.

**Manuel Junco** (BME 1973) has a new job after 27 years at Fluor Corporation. He now works at Brinderson as their CEO.

Brinderson is an engineering, construction, and maintenance company with 2500 employees operating predominantly in the West and Gulf Coast of the United States. It has offices in California, Texas and Louisiana and executes projects in the energy sector including oil, gas and power. Manuel’s years at Tech were memorable and he enjoyed the staff very much. “In my freshman year, he said, “I even had a mechanical drawing professor who remembered my father when he was in the school during the WW II years.”

**Anthony Lee** (BME 1993, MSME 1995) was a 2008 inductee into the College of Engineering’s Council of Young Engineering Alumni. He is Vice President of R&D at Cellular Bioengineering Inc., a venture-backed start-up seeking to develop a cure for corneal blindness.

**Bong Jae Lee** (MSME 2005, Ph.D. ME 2007) was one of the winners of the Sigma Xi (Georgia Tech Chapter) Best Ph.D. Thesis Awards.

**Rich Malak** (MSME 2004, Ph.D. ME 2008) has accepted a position as an assistant professor at Texas A&M University beginning August 2009. In the interim, he will continue teaching at Georgia Tech Lorraine in Metz, France.

**Tamela D. McClam** (BSME 2002) earned a Doctorate of Medicine (MD) degree from Baylor College of Medicine in Houston, Texas. She is a resident at Emory University School of Medicine in the Department of Psychiatry and Behavioral Sciences.
David F. Montague (BNE 1977) was inducted into the College of Engineering Academy of Distinguished Engineering Alumni. He is Senior Vice President of ABSG Consulting Inc., a risk assessment and reliability engineering firm.

Jean A. Mori (BME 1958) was a 2008 inductee in the College of Engineering Hall of Fame. Mr. Mori was the Woodruff School’s 2007 Distinguished Alumnus. He is CEO of Mori Luggage & Gifts, a retail specialty store chain based in Atlanta with 30 stores throughout the Southeast.

Tommy Newton (BSME 2008, MSME 2008) is an Application Engineer at AccuSentry, Inc. in Marietta, Georgia. He was married in the spring to Sunni Haag (BS Psych 2005, MS Mgmt 2006).

John Oshinski (BME 1983, MSME 1991, Ph.D. ME 1993) is the Director of the Emory Center for MRI Research in the Department of Radiology at Emory University School of Medicine in Atlanta.

Aniruddha Pal (Ph.D. ME 2005) and Professor Yogendra Joshi received the Journal of Electronic Packaging Best Paper of the Year Award, 2007-2008 from The Electronic and Photonic Packaging Division of the ASME. He works as a Mechanical Engineer in Etch Engineering Technology at Applied Materials in Santa Clara, California.

Andrew E. Perkins (BSME 2000, Ph.D. ME 2007) and Suresh K. Sitaraman co-authored a book on “Solder Joint Reliability for Multiple Environments” published in 2009 by Springer. Dr. Sitaraman was his advisor and the book is based on his doctoral work.

Ravi Rangan (Ph.D. ME 1990) was a recent inductee to the College of Engineering Academy of Distinguished Engineering Alumni. He is Chief Technical Officer of Centric Software, Inc.

Lisa Schott (BME 1990) was named Engineer of the Year for Technical Excellence by the Florida Section of ASME. Also, she finally received a Notice of Allowance on April 2, 2009 from the U.S. Patent Office for her application for Acoustical Window and Door Covering, a full 4.5 years after submitting the initial applications. Lisa is a member of the Woodruff School’s Advisory Board and a strong advocate of promoting innovation within the Woodruff School. She is the President and Principal Acoustical Consultant for Quietly Making Noise, LLC, an acoustical consulting and noise control company founded by Lisa in Oviedo, Florida.

Randy Sheffield (BME 1988, MSME 1990, Ph.D. ME 1994) recently sent this update to Bill Wepfer. “It’s time to move again. I am off to Singapore this time. In fact, I am in Singapore now. I have been asked to lead the engineering team supporting the commercial products for one of our business segments. The official title is “Sustaining Manager, Singapore Integration Center” for the business card. I will be responsible for establishing a world-wide program that focuses on the improvement of product quality and reliability of our submersible pumping business; the range of products includes downhole permanent sensors, downhole motors and pumps, power cables, and various supporting surface electronic gear spread out over 6-7 distinct product lines. The team is located in at least four different countries (US, Canada, UK, Singapore) with additional operations in China and Russia to be added later. We’ll have to think how we can spread the message on Georgia Tech over here.”

Dror Seliktar (MSME 1998) was a recent inductee to the College of Engineering Council of Outstanding Young Engineering Alumni. He is a Senior Lecturer on the Faculty of Biomedical Engineering at the Technion-Israel Institute of Technology.

Tim Simpson (MSME 1995, Ph.D. ME 1998) was elected to the grade of Fellow in the American Society of Mechanical Engineers for “significant accomplishments … through his research in product family design, production dissection, design and analysis of computer experiments, and multi-dimensional data visualization.” He is an Associate Professor in the Department of Mechanical and Nuclear Engineering at Pennsylvania State University.

Kate Klee Spillane (Ph.D. NE 1994) helped develop the University of Pennsylvania’s new Master in Medical Physics Program. Although she is very busy with her new position, she still does some clinical consulting for her previous employers to “keep my hand in things.” Kate has two children, ages 5 and 7 and likes her new job because of the flexibility in schedule that keeps her available for her children. In her new position, she helped redesign the curriculum, develop new courses and hire new faculty. She teaches one course each semester and is an adjunct assistant professor in the Schools of Medicine and Arts and Sciences.

Philippe Sucosky (MSME 2000, Ph.D. ME 2005) is an assistant professor in the Aerospace and Mechanical Engineering Department at the University of Notre Dame. Prior, he was a postdoctoral fellow in the School of Biomedical Engineering at Georgia Tech.

Vikas Tomar (Ph.D. ME 2005) is an assistant professor in the Aerospace and Mechanical Engineering Department at the University of Notre Dame. He received a Young Investigator Award from the Air Force Office of Scientific Research for 2009-2012.

Robert C. Traylor (BME 1958) was inducted into the College of Engineering Academy of Distinguished Engineering Alumni. He is a Partner at Bull Moose Energy, LLC, a developer of biomass-based power plants.

Jean C. Valdes (BME 1981) was a 2008 inductee into the College of Engineering Academy of Distinguished Engineering Alumni. He is President and CEO of Alliance Medical Products, Inc., a pharmaceutical contract manufacturer that he co-founded.

Ben Waldrep (BME 1988) was promoted to Site Vice President at Progress Energy’s Brunswick nuclear plant in Southport, North Carolina. Ben and his wife, Jackie, live in Southport with their three children.

Chris Williams (Ph.D. ME 2008), along with Professors Farrokh Mistree and David Rosen, received the best paper award of the ASME Design for Manufacturing at the Lifecycle Conference. He is currently an assistant professor in the Department of Engineering Education at Virginia Tech.
Jerry A. Davis, Jr. (BSME 1938) passed away on March 23, 2009 in Perry, Georgia. After graduation he helped build Robins Air Force Base. After service in the marines in the Pacific during WWII, he was a founder and first President of First National Bank of Houston County.

Paul A. Duke (BME 1945) died on March 24th in Atlanta from the effects of Alzheimer’s. He was the 1991 Woodruff School Distinguished Alumnus and a member of the Woodruff School Advisory Board for many years. He was active in Georgia Tech alumni affairs, and received the Institute’s Distinguished Service Award in 1982 and the President’s Award in 1987. He was the founder and chairman of Peachtree Corners, Inc. in Norcross, Georgia.

Vice Admiral Eart B. Fowler Jr. (BME 1946), a resident of Sarasota, Florida, died on February 9, 2008.

Jerry Tom Hinson (BME 1965) died on December 5th in his home in Atlanta after battling a rare blood disease. In addition to his degree from Georgia Tech he held a law degree from Emory University. He worked as a real estate developer and later he was president of the National Automobile Association, a position he held until his death. He was an avid Georgia Tech fan.

Dean Lennard (BME 1953) passed away on May 3, 2008 in Cincinnati, Ohio.

Frank K. Webb (BME 1938) died on November 24, 2008 at his home in Texas City. At Georgia Tech he was active in Tau Beta Pi, Kappa Kappa Pi, ASME, the Georgia Tech band and the Delta Tau Delta social fraternity. Upon graduation, he went to work for Amoco Oil in Texas City. He became manager of several refineries and later assumed overall charge of refineries across the country.

Mr. Webb received the 1992 Woodruff School Distinguished Alumnus Award, in 1994 he was inducted into the College of Engineering Hall of Fame, and he was a member of the Georgia Tech Hill Society. Mr. Webb funded the Frank K. Webb Program in Professional Communication, whose purpose is to help students improve their oral and written communications skills.

Let us hear from you! If you’ve received an award or promotion, changed jobs, or have other professional or personal news you’d like to share with us, please complete this form and mail to:

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Degree(s) _____________________________ Year(s) ____________

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8/2009
## STAFF NEWS

**Amy Bondurant** is the Director of Human Resources for the Woodruff School.  
**Bruce Bradley** is the new Building Coordinator in MRDC.  
**Vladimir Bortkevich, Robert Cooper, Joyce Lowe, and Stephanie Merrick** each received a Georgia Tech ten-year service award at the 2009 faculty/staff luncheon.  
**Louis Boulanger** is working as a Mechanical Technician III in the ME Machine Shop.  
**Dimetra Diggs-Butler**, program coordinator II, won a Georgia Tech Outstanding Staff Performance Award at the 2009 faculty/staff luncheon.  
**William Cheesborough** began in the new position of Director of Financial Services and Administration.  
**Marlena Frank**’s temporary position as a Systems Analyst III was made permanent. She received her B.S. in Computer Science (Cooperative Plan—Honors) in May 2008. Her coop work was done in the Woodruff School.  
**Wanda Joefield**, administrative coordinator, retired from Georgia Tech. She began her employment in 1995 in the Woodruff School.  
**Mark Juliano** is the Woodruff School’s new Director of Information Technology.  
**Sherron Lazarus**, administrative manager, retired from Georgia Tech after 17 years in the Woodruff School.  
**Stephanie Merrick** was recognized as a STRAP graduate at the 2009 Faculty/Staff luncheon. She received her Master of Science in Human Resources Management from Troy State University in 2008.  
**Cary Ogletree** returned to the Woodruff School in the new position of Program Manager—Facilities.  
**Joi Outlaw and Michael Proctor** won the Woodruff School Outstanding Achievement Award for Classified Employees for fall and summer semester 2008, respectively.  
**Sterling Skinner**, undergraduate laboratory director, won the Woodruff School Outstanding Achievement Award for Classified Employees for 2008.  
**Joel Weber** is the Woodruff School’s new Course Leader; (BS/MS student), received one of the ten (one for each course) James G. and Mary G. Wohlford Scholarships.  
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The following Woodruff School staff members were recognized at the Georgia Tech Staff Training Awards Ceremony: **Dimetra Diggs-Butler** (Course Leader; Emerging Leaders); **Cheryl Griffin** (Office Professional); **Vivian Johnson** (Office Professional); **Joyce Lowe** (Defining Customer Service); **Stephanie Merrick** (Defining Customer Service); Amina Sadiq (Departmental Financial Management); and **Glenda Skinner** (Emerging Leaders).

## STUDENT HONORS AND AWARDS

**Christopher Adams** received one of the ten (one for each engineering school) Henry Ford II Scholar Awards, given to the engineering students with the best academic records at the end of the third year of undergraduate study. These awards are supported by the Ford Motor Company Fund to the College of Engineering.  
**Dinesh Bansal** received the Peter J. Kemmy Memorial Student Scholarship at the 14th International Symposium on Electromagnetic Launch (EML) Technology. The award recognizes the work done by students in the field of EML.  
**Terry Caston** (Tequila Harris, advisor), **Patrick Chang** (David Rosen, advisor), **Matthew Eicholtz** (BS/MS student), **Ben Lee** (Chris Paredis, advisor), **Mihir Pathak** (Mostafa Ghaasiaan, advisor), **Chris Phaneuf** (Craig Forest, advisor), and **David Sotto** (Gang Bao, advisor) each received an Honorable Mention in the National Science Foundation Graduate Research Fellowship competition.  
**Phares Carroll** received the J. E. McDaniel Award. This award is given by the Briaerean Honor Society and recognizes the graduating senior co-op with the highest grade point average.  
**Shaheen Dewji**, doctoral student in NRE, was selected as an SAIC Fellow to support her participation in the Sam Nunn Security Program. This program allows a select set of students to study the policy aspects of their technical disciplines as they relate to international security.  
**Huan Du** received the Joe T. LaBoon (ME 1948) Outstanding Graduating Senior Co-op Award. It is presented to the outstanding graduating co-op who has excelled in the classroom and on the job, and who has made exemplary contributions to the coop program. Huan also received the Tau Beta Pi Senior Engineering Cup, which is presented to the engineering student who has demonstrated academic excellence, leadership, and service to the field and to Institute activities, as well as having shown potential for continuing growth.  
**Matthew Eicholtz, Jefferson Gee, Lina Jensen, Cameron Miller, Noah Randolph and Joel Weber** each received a Richard K. Whitehead Jr. Memorial Award. The Georgia Scientific and Technical Research Foundation established this award in memory of its first president, Richard K. Whitehead Jr. (ME 1957). This award is presented to outstanding mechanical engineering seniors who exemplify high standards of scholarship and service.  
**Joshua Haar, Prathyusha Kantheti, Ryan Kraft** and **Yulani Smith** each won a James G. and Mary G. Wohlford Scholarship. This award is named in honor of the late director emeritus of the Cooperative Division and is sponsored by the Co-op Club. These scholarships recognize outstanding senior co-op students who have excelled both academically and on their co-op jobs, and who have made significant contributions to the community.  
**Heather Humphreys** won a 2008 National Defense Science and Engineering Graduate (NDSEG) Fellowship. There were more than 3,400 applications for this year’s awards.
Brandon Kearse won the Woodruff School of Mechanical Engineering School Chair’s Award, which is given on the basis of outstanding scholarship and contributions to the School, especially to its programs and external representation. The Woodruff School honors the graduating senior in mechanical engineering who best fulfills these standards.

Adam Lord received the Woodruff School of Mechanical Engineering Outstanding Scholar Award. This award recognizes a graduating senior who has achieved an exceptional scholastic record in the mechanical engineering program.

Jose Medina received the Samuel P. Eschenbach Memorial Award in Mechanical Engineering. This award, given by the family of Samuel P. Eschenbach (ME 1933), is based on academic performance, leadership capabilities as demonstrated through involvement in the campus community, and promise as a mechanical engineer.

Nicole Miller received the Pi Tau Sigma Outstanding Senior Award, which is for a graduating senior who has demonstrated outstanding scholastic achievements and service to the School, to the Institute, and to student activities.

Shweta Natarajan received the first GE Energy Research Fellowship for work on problems related to power generation.


Matthew Rogge received a CETL/BP Graduate Teaching Assistant Award. This Institute-wide award is given to TAs as instructor of record for outstanding contributions and excellence in undergraduate instruction. He also received the first-ever Woodruff School Outstanding Teaching Assistant Award for excellent instruction in undergraduate laboratory courses. He assisted his advisor, Dr. Charles Ume, in mechatronics courses for the past four years.

Yulani Smith won the Georgia Tech Society of Black Engineers Faculty Advisor Excellence Award. It is presented to an NSBE student who by dint of outstanding scholarship and leadership qualities best typifies the mission of NSBE and has exhibited excellence in the Georgia Tech tradition.

Stephanie Thompson is a new recipient of an ARCS scholarship. Her adviser is Chris Paredis and her tentative Ph.D. topic is Exploring the Outcomes of Design Process Decisions Using Monte Carlo Analysis.

Hanna Wagner received the Pi Tau Sigma Outstanding Junior Award, which is presented to the junior student in the Woodruff School who demonstrates outstanding scholarship and service to the School and to student activities.

Ben Waghorn was selected as one of ten finalists for the James R. Cameron Young Investigator Competition at the 2009 American Association of Physicists in Medicine Annual Meeting.

Kevin Wright won the Pi Tau Sigma Sophomore Award. The award is presented to the sophomore student in the Woodruff School who demonstrates outstanding scholarship and service to the School and student activities.

THE INVENTION STUDIO
On March 13th, the ribbon was cut to officially open The Invention Studio in the Woodruff School. This is a renovated 600 square foot facility in the MRDC Building, where our senior and other interested undergrads, faculty, and graduates students can create and build inventions. Primarily for the Capstone Design Course (ME 4182), users get their hands dirty using big machine tools (e.g., waterjet, drill press), power tools, hand tools, and electronics to create working prototypes. This new facility was made possible with the generous support of industrial sponsors, a partnership between ME 2110 and ME 4182, and support from the School Chair to many faculty in the Woodruff School. The winner of the logo contest was undergraduate Sergey Tereshko. His winning entry, shown here, will be mounted and displayed in the Invention Studio.

OUR STUDENTS COMPETE AND WIN
The RoboJackets team came in second in the small robot league at the U.S. Open Robot Soccer Championships in Boston. They played four games—two against MIT/Harvard and two versus Carnegie Mellon University. According to team leader, Andy Bardagjy, “in both games against MIT/Harvard we shut them out 10-0 mercy killing before the second half. In the two games against CMU, we nearly made it the entire game before losing 0-10. This is considerable since CMU is second in the world.” Jun Ueda is the team’s faculty advisor.

GT Motorsports returned to the top 10 in the Formula SAE competition, held at the Michigan International Speedway in Brooklyn. The team placed 8th overall, out of a field of 93 teams from colleges around the world. In the static events, the team placed 27th overall, including a multi-way tie for 12th in the design event. In the dynamic events, the team placed 7th overall, with critical finishes of 15th in autocross, and 5th in the endurance/fuel-economy event, which is 40 percent of the total points. The combined static/dynamic score led to the overall 8th place finish. This is the highest the team has placed since a 4th place finish in 2003. According to faculty advisor, Ken Cunefare, “The accomplishment this year is all the more impressive because the team undertook a complete clean-sheet redesign of the entire vehicle.”