Dear Alumni and Friends of Aerospace Engineering at Georgia Tech,

It is a great honor for me to dedicate the 2011 AE Newsletter to Mr. William R. T. Oakes, Jr., AE ’59, who passed away on February 9, 2011. Bill Oakes was a true and valued friend of our School. The School Chair endowment was provided by Bill and has been an enabling factor in many of the events and activities we now participate in. From his first association with the School as a student, Bill was a forward thinking protagonist who stayed actively involved. My last personal meeting with Bill was on January 31; a meeting in which he discussed his desire to add to his already tremendous contribution to AE. He was universally liked within AE for his kind, gentle demeanor and generous spirit. We have many tangible reminders of Bill in our School – and we will treasure our memories of this great man.

In this, our 2011 AE Newsletter, we have many good things to report. From our international program to building renovations, we hope you will be inspired and encouraged by what you read here. I am grateful for my colleagues and the exciting place they make AE at Georgia Tech. We would like to share some of that excitement with you.

On the Institute level, AE has been actively involved in designing Georgia Tech’s Strategic Plan and its execution for the next 25 years. The plan has five main goals and ten Institute-wide initiatives to implement those goals. Units are being asked to identify ways they can help achieve the Institute’s goals. If you would like to learn about Georgia Tech’s Strategic Plan, please visit the website http://www.gatech.edu/vision/.

College of Engineering Dean Don P. Giddens retired on June 30, 2011. Prof. Gary May, former Chair of the School of Electrical and Computer Engineering, succeeds Don in the COE Dean’s position. Don earned all his three degrees from the AE School at Georgia Tech. He served as Chair of AE from 1988 to 1992. In 1992, Don accepted a position at Johns Hopkins University as Dean of their Whiting School of Engineering. He returned to Georgia Tech in 1997 to become the founding Chair of the Wallace H. Coulter School of Biomedical Engineering, a joint department between Georgia Tech and Emory University’s School of Medicine. He became Dean of Georgia Tech’s College of Engineering in 2002. Among Don’s many accomplishments is his chairing the NAE’s committee “Changing the Conversation: Message for Improving the Public Understanding of Engineering.” Don has been a wonderful friend to AE and among its greatest advocates. We wish him and his family the very best in their “next phase.”

In other College of Engineering news, I had the privilege of chairing the Search Committee to find a new School Chair for the Industrial and Systems Engineering School. We are happy to tell you that ISyE Prof. Jane Ammons was chosen as Chair after an extensive national search and interview process. Prof. Ammons is the first woman to become Chair of a COE School. It has been a good and positive learning experience for me to work with members of another School at Georgia Tech.
Academic Highlights

Loewy Library and Learning Complex (LLLC)

We told you in last year’s newsletter of our plans for the Loewy Library and Learning Complex (LLLC). The team effort led by Prof. Krish Ahuja to design and implement the LLLC finally came to fruition on October 25, 2011 with the dedication ceremony of the facility. The dedication was attended by Prof. Robert Loewy and members of his family, Georgia Tech President Bud Peterson, Provost Rafael Bras, COE Dean Gary May and numerous AE Faculty, students and staff. Kind words were spoken and Prof. Ahuja gave a demo of what can be done with the technology the LLLC is equipped with. Everyone agrees that this is a marvelous facility that will substantially contribute to positive experiences for AE students for many years to come.

Three offices were combined and renovated to become the LLLC – a high-tech, smart, collaborative and active learning complex and an IT based library. The state of the art space provides a setting for students to assemble, interact, brainstorm and work on group or individual projects. Some of the features students will enjoy in the LLLC are facilitation for face-to-face and online discussions (within and beyond the LLLC), connection to the main Georgia Tech Library, specialized software, and a culture of active interactions through availability of meeting space. Students may study alone (and listen to music via headphones) or work in groups. The complex is designed to be easily reconfigured for various activities. The very best information technology is available to anyone in AE and is supported by pervasive computing systems with multiple interconnected devices. The student-centered complex is simple to use, operates mostly unsupported and is cost effective.

Vertical Lift Research Center of Excellence (VLRCOE)

The AE School has been designated a Rotorcraft Center of Excellence (RCOE) for the seventh consecutive time. The $7.2 million contract will fund the center for the next five years. The RCOE has operated under different names since its creation in 1982. Presently known as the Vertical Lift Research Center of Excellence (VLRCOE), the current “center of excellence” designation was made by a panel of government and industry experts who comprise the government’s National Rotorcraft Technology Center. The VLRCOE carries out multidisciplinary and interdisciplinary research and education, focusing on advancing vertical lift technology, and works in close collaboration with the U.S. rotorcraft industry.

During the past decade, the RCOE has produced 82 PhD graduates. Students in the RCOE have a track record of excellence, winning first or second place in every graduate and undergraduate rotorcraft design competition sponsored by the American Helicopter Society International and the rotorcraft industry for the past 27 years. “The impact and contributions of the center to our School of Aerospace Engineering and to Georgia Tech in general extends far beyond the more than $35 million in direct government funding provided over the past three decades,” said Daniel P. Schrage, rotorcraft design professor who has been the director of Georgia Tech RCOEs since 1986. “The center has served as a catalyst for expanding a number of our academic and research focus areas and has served as a positive force in the Georgia Tech’s distinction as one of the world’s leading aerospace engineering universities.”

The RCOE was Georgia Tech’s first externally designated center of excellence in 1982. Since that time, it has partnered with other world-famous vertical flight researchers from respected universities, such as the University of Michigan, Washington University, Utah State University, Ohio State University, University of Texas in Arlington, etc.
Unmanned Aerial Vehicle Research Facility (UAVRF)

The UAVRF, directed by Professor Eric Johnson, has conducted advanced Unmanned Aircraft Systems Technologies research for 15 years, including flight testing with a variety of instrumented airplane and helicopter research vehicles. The UAVRF was renovated last summer, allowing separate facilities to be co-located for the first time. This incorporates a new System Integration Lab, an avionics workshop, an aircraft maintenance/storage area, and offices. Current projects include automatic nap-of-the-Earth helicopter flight, vision-based sense and avoidance of mid-air collisions, adaptive flight control, and indoor navigation. In 2010, the Georgia Tech Aerial Robotics Team, based in the UAVRF, won the Association for Unmanned Vehicle Systems International Aerial Robotics Competition by building and operating a small electric helicopter with a laser-aided inertial navigation system in an indoor course.

DARPA MENTOR Program

Professor Dan Schrage, along with ME Professor David Rosen, led a winning team of Georgia Tech researchers and instructors chosen by DARPA (The Defense Advanced Research Projects Agency) for the MENTOR (Manufacturing Experimentation and Outreach) program. MENTOR is a response to the recently launched challenge by President Obama “Educate to Innovate” - calling for more teachers and students involved in Science, Technology, Engineering and Mathematics. The goal is for students to work together via social networking media to design and build systems of moderate complexity (e.g., mobile robots, go carts, etc.) for team competitions with prizes awarded. 1000 CNC (computer-numerically-controlled) 3D printers will be distributed to high schools nationwide. Anthony Docal, a consultant who frequently works with the Georgia Tech Space Grant Consortium, will be the MENTOR Outreach Director. Dassault Systemes will be an important partner – providing world-class computer aided design and manufacturing software for social networking and valuable global learning program experience. 3DS and Stratasys, adaptive manufacturing companies, will provide manufacturing equipment for MENTOR. Fernbank Science Center will be the site of the first Georgia MENTOR cluster for DeKalb County high schools. Support to high schools involved with the MENTOR project will be provided by the Georgia Technology Student Association (GA TSA).

Multidisciplinary University Research Initiative (MURI) Award on Autonomous Vehicles

Reducing the risk to human lives and ensuring mission success while operating in a hazardous or hostile environment has led to the development of unmanned, autonomous and semi-autonomous vehicles for many military applications. Most robotic ground vehicles currently deployed in the field operate at low- or moderate-speeds and have low to moderate maneuverability, thus making them vulnerable in the battlefield. A new Multidisciplinary University Research Initiative (MURI) award titled “Neuro-Inspired Adaptive Perception and Control for Agile Mobility of Autonomous Vehicles in Uncertain and Hostile Environments,” sponsored by the Army Research Office, aims at addressing the challenging issues of sensing/perception and control/planning for a vehicle navigating at high speed in a highly unstructured, complex, dynamic environment. The MURI team is led by Professor Panagiotis Tsiotras of AE, and involves, the Georgia Tech College of Computing, MIT and the University of Southern California. More information on this MURI effort can be found at http://soliton.ae.gatech.edu/labs/dcsi/research-muri-nascar.html
Space Shuttle Symposium

The AE School, under the sponsorship of NASA, Boeing, Georgia Space Grant Consortium, and AIAA, hosted a symposium - The Space Shuttle: An Engineering Milestone - on June 6-8, 2011, at the Georgia Tech Global Learning Center. The purposes were (1) to honor and celebrate the contributions of men and women from the US and around the world who dedicated their careers to the Shuttle program; (2) to learn from the engineers and designers who contribute to the concept, design, manufacturing, maintenance, and operation of the Shuttle; (3) to spotlight some of the many scientific discoveries enabled by the Shuttle; and (4) to inspire younger generations to careers in aerospace engineering and related disciplines. The symposium was chaired by NASA Administrator Charles Bolden and Prof. Bob Loewy.

The symposium brought together an international group of scientists, technologists, engineers, mission designers, policy makers and students with an interest in learning from the significant contributions of the shuttle era and in exchanging ideas to promote future collaboration and continued leadership in space science and engineering. We invited students from all the AE Schools, Historically Black Colleges and Universities, Hispanic Serving Institutes and Indian Tribal Colleges in the U.S. to attend with their registration and travel expenses paid. The symposium was conceived, organized, and hosted by Professors James Craig, Robert Loewy, and Lakshmi Sankar. Ms. Cindy Pendley was the project manager. The enormous support from AE alumni Bill McArthur, Rich Clifford, and Roger Krone, as well as Professors Bobby Braun and Steve Ruffin, are gratefully acknowledged.

Freshman Applicants for the Fall 2011 Class

As in past years, a very large number of freshman applicants (166) have been accepted into the BSAE Aerospace Engineering Class of Fall 2011. Of these, 68 come from the state of Georgia, 86 are from out-of-state and 12 international students have been accepted into our program. We are happy to report that 32 of these students (~19%) are women. The AE faculty members actively recruit these highly accomplished students, and the women students, in particular. AE School is also actively participating in other campus-wide recruitment events such as:

Connect With Tech (http://www.admission.gatech.edu/campus_visits/cwt/)

Girls Night Out (http://admission.gatech.edu/campus_visits/gno/)

FUTURES (Special visitation programs for 10th & 11th grade women)

(http://www.admission.gatech.edu/campus_visits/futures/)

and the National Society of Black Engineers annual campus recruitment event

33 of our Freshmen (among 142 who reported SAT scores) have a SAT above 2160 out of 2400 in SAT (math+verbal+writing). The median high school GPA is a perfect 4.0! We look forward to working with these gifted students over the coming years.
NASA Title IX Audit Regarding Equal Opportunity for Women

NASA recently conducted a compliance review of the AE School to ensure that beneficiaries of NASA grants have equal opportunity, without regard to sex, to pursue, participate in and benefit from academic, research, career development opportunities, extracurricular and other educational activities. The review was conducted under Title IX of the Education Amendments of 1972, and NASA’s implementing regulations and policy, which prohibit discrimination on the basis of sex in educational programs and activities receiving Federal financial assistance.

We are happy to report that the findings of this review were very positive! NASA visitors commended our program for the "excellent start AE has made by continuing to examine and evaluate admissions, enrollment, retention rates, graduation rates, and other statistical data on a regular basis, consistent with NASA regulations" and recommended that the College of Engineering use Assessment Practices within AE as a pilot model for similar assessments in other academic units.

NASA did make several specific useful recommendations for improving satisfaction rate among women students in their preparation for graduate school, and for increasing the percentage of women among our faculty and student ranks. These recommendations include proactive recruitment at the Society of Women Engineers Career Fairs and an enhanced use of AE web site to celebrate and publicize the accomplishments of our women students, faculty, and alumni. These recommendations are already being put into practice. Please visit our web site http://www.ae.gatech.edu and http://www.ae.gatech.edu/news to see some of the accomplishments of our gifted women students and faculty.

Aviation Week and Space Technology Work Force Review

For the past 15 years, Aviation Week & Space Technology has been conducting annual reviews of compensation and job/career opportunities within the US aerospace and defense industry. The entire study is documented at http://www.aviationweek.com/aw/generic/story_channel.jsp?channel=defense&id=news/bestprac_wk10.xml. Data was collected from 36 employers. Nearly 550,000 of the 644,000 aerospace workers are employed by these companies. We are pleased to report that Georgia Tech earned the top spot among major aerospace degree programs in the country, and #2 spot overall in the top 5 list, in terms of volume of hires: 1) California Polytechnic, 2) Georgia Tech, 3) Penn State, 4) TIE Virginia Tech and MIT, and 5) Purdue University. The companies cited the reputation of these universities and their success with previous hires as the primary rationale for these rankings.

Co-Op Employer Survey

In a separate survey conducted by the Wall Street Journal (http://online.wsj.com/article/SB10001424052748704554104575435563989873060.html) Georgia Tech is ranked #1 among co-op employers in the engineering category. The co-op employer survey conducted by the AE School for the past several years also indicates a very high level of satisfaction with our co-op students. 99% of the co-op employers (61 out of 62) surveyed for the most recent academic year (2009-2010) indicated that the AE Academic Program meets or exceeds the needs of the industry. The co-op students were ranked very highly (60 out of 62) in areas such as time management, dependability, judgment, and overall quality of work. We are very proud of our alumni and students, and the rich and diverse sets of skills they bring to the aerospace workforce!
Collaboration with KUSTAR in Abu Dhabi

Professor JVR Prasad was appointed to serve as the inaugural chair of aerospace engineering at KUSTAR (Khalifa University of Science Technology and Research) located in Abu Dhabi, the United Arab Emirates. Prof. Prasad took up residence in Abu Dhabi from August 2010 to September 2011. His main focus was to develop KUSTAR’s AE undergraduate program. To accomplish this goal, he helped with faculty recruiting, curriculum development and instructional lab development. He also provided leadership for managing KUSTAR AE’s budget and personnel resources. We anticipate increased collaboration, through Prof. Prasad’s tenure at KUSTAR, leading to strengthened relationships between the two institutions.

Personnel Highlights

AE welcomed Prof. Julian J. Rimoli to our School as an assistant professor in January 2011. A native of Argentina, Prof. Rimoli obtained his Engineering Diploma in Aeronautics from Universidad Nacional de la Plata in 2001. He earned Aeronautics degrees from Cal Tech, M.S. in 2005 and Ph.D. in 2009. He held a post-doctoral position at MIT conducting research and supervising graduate students. Prof. Rimoli’s research interests are in the broad field of computational solid mechanics with particular focus on aerospace applications. He would like to unveil and understand complex physical phenomena related to the mechanical behavior of materials and structures through advance modeling and simulation. Problems involving multiple length and time scales and the development of theories and computational techniques to seamlessly bridge those scales particularly interest Prof. Rimoli.

Professor Olivier Bauchau joined the faculty of the Joint Institute of the Shanghai Jiao-Tong University and University of Michigan in Shanghai, China after many years of service at the AE School. Prof. Bauchau is a world renowned expert in structural dynamics. We wish him the best of luck.

Assistant Professor Andrew Makeev has left our school to join the Mechanical and Aerospace Engineering Department at the University of Texas in Arlington. Prof. Makeev’s areas of expertise are composite and metallic materials, structural methods, prognostics and reliability. We wish him the very best.

Regents Professor and David S. Lewis Chair Ben Zinn retired on August 31, 2010. Prof. Zinn’s 45 years of service made him Georgia Tech’s longest serving faculty member. He remains an active member of the AE faculty and looks forward to many more years of service to the School and the Institute.

Professor Tony Calise retired in January 2011 after 25 years of service. Prof. Calise was a pioneer in flight mechanics and control and made enormous contributions to advancing the state of the art. He helped to establish the Controls Disciplinary Group here in the AE at Georgia Tech that remains a leader in its field. Prof. Calise has moved to Pennsylvania, returning to his roots.

Professor Bill Mikolowsky recently retired from his position as Professor of the Practice. Bill came to us after many years at Lockheed Martin and expertly taught our Senior Design course. We wish the very best to Bill and his family.
Robert Braun, David and Andrew Lewis Professor of Space Technology, was honored with the prestigious Von Karman Lectureship in Astronautics by the American Institute of Aeronautics and Astronautics (AIAA) in January 2011. The annual award, named for astronautics pioneer Theodore Von Karman, is given to someone who has performed notably and distinguished themselves technically in the field of astronautics. Prof. Braun was recognized for advancing the understanding of the challenge of Mars entry, descent, and landing, and for the development of systems concepts and technologies enabling Martian exploration programs. Prof. Braun gave his lecture at the 2011 AIAA Aerospace Sciences Meeting in Orlando, FL. Prof. Braun recently served a 2 year term (2010-2011) with NASA as their first Chief Technologist. In this role, he was NASA’s principal advisor and advocate on matters concerning agency-wide technology policy and programs. We are happy to report Prof. Braun is now back with us in the AE School again.

Professor Tim Lieuwen was awarded the George Westinghouse Silver Medal by the American Society of Mechanical Engineers (ASME) at their annual International Mechanical Engineering Congress and Exposition. Prof. Lieuwen was honored for his “outstanding contributions to combustion science and technology for low emission gas turbines.” The George Westinghouse Medals, established by ASME, recognize eminent achievement or distinguished service in the power field of mechanical engineering. The silver medal is awarded to an individual under age 45. Prof. Lieuwen maintains an active teaching and research program in clean combustion.

Amy Pritchett, David S. Lewis Associate Professor of Cognitive Engineering, has been recognized for her outstanding commitment to aeronautics education by having an AIAA scholarship named after her. The Amy R. Pritchett Digital Avionics Scholarship is one of four $2000 undergraduate scholarships endowed each year by AIAA’s Digital Technical Committee and maintained in perpetuity by the AIAA Foundation. The honor is a result of Prof. Pritchett’s successful efforts to involve undergraduate students in the Digital Avionics Technical Committee and at the IEEE/AIAA Digital Avionics Systems Conference. Prof. Pritchett is the founder and director of the Georgia Tech Cognitive Engineering Center -- an interdisciplinary research and education program.

Search for New Faculty Members

We are glad to report that AE has formed search committees for the hire of new faculty members in the areas of: Aerodynamics for Complex Systems (chaired by Prof. L. Sankar); Combustion, Propulsion and Energetics (chaired by Prof. B. Zinn), Flight Vehicle Design (chaired by Prof. D. Mavris), Structures and Materials (chaired by Prof. M. Ruzzene), and Astrodynamics (chaired by Prof. B. Braun). The committees have begun their work of looking for the best candidates for these positions.

Alumni Highlights

Sandy Winnefeld, AE ’78, was appointed the Vice Chairman of the Joint Chiefs of Staff of U.S. Military in August 2011. President Obama said of Winnefeld, “Sandy knows we have to be prepared for the full range of challenges.” Adm. Mike Mullen, outgoing Chairman of the Joint Chiefs of Staff, praised the appointment of Winnefeld, calling him an extraordinary leader, who will provide the Secretary of Defense and the President not only the best military advice, but also the great benefit of his military experience and command in combat operations. Mullin also noted that Winnefeld will represent faithfully and stridently the 2.2 million men and women in uniform, as well as their families.
John Elbon, III, AE ’82, has been named Boeing’s Space Exploration vice president and program manager of Commercial Programs. Most recently, Elbon managed Boeing’s efforts on NASA’s Commercial Crew Space Act Agreements, including the first two phases of the Commercial Crew Development program. He has gathered innovations and capabilities from across Boeing in the development of crew transportation systems that will support NASA and commercial customers in accessing destinations in Low Earth Orbit. Boeing Network & Space Systems President Roger Krone, AE ’78, said “I thank John for taking the helm of our Space Exploration programs. I am confident he will be successful in charting our course as the space industry continues to evolve.”

Larry Schneider, AE ’85, was promoted at Boeing Commercial Airlines to Vice President of Product Development. In this position, Schneider leads the preliminary design of new and derivative airplanes and systems, environmental performance and advanced technology development. He also manages the overall Research and Development and Internet Application Development plans across Commercial Airplanes, and supports the Product Strategy and Advanced Technology organizations within Commercial Airplanes and in Phantom Works. Schneider has held several positions prior to this one at Boeing. He also serves on the advisory board of AE’s Aerospace Systems Design Laboratory (ASDL).

Chris Ayers, AE ’88, ’89, has been named President of Alcoa’s Global Primary Products (GPP) business, effective May 18, 2011. Ayers joined Alcoa in February 2010 in the newly formed position of Chief Operating Officer of Alcoa Cast, Forged and Extruded Products. He was elected a Vice President of Alcoa in April 2010 and Executive Vice President of the Company in August 2010, when he was named Chief Operating Officer for GPP. “Since joining Alcoa, Chris has had a solid track record of success in turning operational excellence into financial performance,” said Alcoa Chairman and CEO Klaus Kleinfeld. “He has provided steady leadership in overseeing GPP’s operations and I am confident he will continue GPP’s progress toward achieving its 2011 and three-year goals.”

Honors and Awards

We have appended the list of honors and awards earned by our faculty, staff and students in Academic Year 2010-2011. As you will see, it is a long and impressive list – the product of the good work of our School. We hope you have enjoyed reading the news we have gathered for you and welcome your comments. In the words of Albert Einstein, “The most incomprehensible thing about the world is that it is comprehensible.” We celebrate the knowledge that our faculty, staff and students strive for everyday and hope that we may leave the world a better place for the understanding we have brought to it.

With warmest regards

Vigor Yang
Prof. Robert Braun
- Awarded the 2011 Von Karman Lectureship by the American Institute of Aeronautics and Astronautics (AIAA). Prof. Braun was recognized for advancing the understanding of the challenge of Mars entry, descent, and landing, and for the development of systems concepts and technologies enabling Martian exploration programs.

Prof. Anthony Calise
- Received the 2010 Aerospace Guidance, Navigation, and Control Award by AIAA. Prof. Calise was recognized for seminal innovations and novel contributions in the theoretical development and application of biologically inspired adaptive control systems for aerospace vehicles and systems. The award consists of an engraved medal, a certificate of citation, and a rosette pin.

Prof. John Paul Clarke
- Appointed to the Department of Transportation Advisory Council on Transportation Statistics (ACTS) by Secretary Ray LaHood on March 16 and has subsequently been named Chair of the Council.
- Appointed Editor of the IEEE Transactions on Intelligent Transportation Systems

Prof. Eric Feron

Prof. Brian German
- Received Northrop Grumman’s Aerospace Systems Dean’s Teaching Excellence Award. Prof. German will receive $2,000 with the award.

Dean Don P. Giddens
- Elected President-Elect of the American Society of Engineering Education (ASEE) in June 2010. Dean Giddens will assume the position of President of this esteemed organization. ASEE has more than 12,000 members in the U.S.

Prof. Wassim Haddad
- Appointed Associate Editor of Archives of Control Sciences, Committee of Automation and Robotics, Polish Academy of Sciences

Prof. Dewey Hodges
- Awarded one of two Georgia Tech Sigma Xi Sustained Research Awards. Prof. Hodges will receive an award certificate and $2000 in recognition of his sustained research in structural dynamics and aeroelasticity with applications to rotorcraft and wind turbine rotor blades and high-aspect-ratio wings. The Georgia Tech Chapter of Sigma Xi has honored Georgia Tech faculty and students for their research since 1947.
- Georgia Tech 25 year service award

Dr. Michelle Kirby
- 2010 FAA Center of Excellence Faculty of the Year Award for her research contributions on metrics to support a potential CO2 standard for future aircraft certification.

Prof. Timothy Lieuwen
- Selected to receive the George Westinghouse Silver Medal for his eminent achievements in the power field of ASME. The Medal is bestowed upon one who is under the age of 45. Tim will receive $1,000, a silver medal and a certificate. The citation reads: “For outstanding contributions to combustion science and technology for low-emissions gas turbines. Specifically, for improved understanding of factors leading to detrimental combustion instabilities and understanding of fuel composition effects on gas turbine operability.”
Amato, Robert Hudack, David Noble, David Scarborough, Peter A. D’Carlo, Jerry Seitzman, Tim C. Lieuwen

Prof. Andrew Makeev
• Received American Helicopter Society’s Cheeseman Award for Best Paper with his colleague Dr. Yuri Nikishkov. Their paper entitled "Finite Element Based Damage Tolerance Method for Aircraft Composite" was presented at the 36th European Rotorcraft Forum in Paris on September 4-7, 2010.

Prof. Dimitri Mavris
• Elected Fellow of the American Institute of Aeronautics and Astronautics (AIAA).

Prof. J.V.R. Prasad
• Appointed Editor-in-Chief of the Journal of the American Helicopter Society International, effective May 17, 2010

Prof. Amy Pritchett
• Appointed to the FAA Research, Engineering & Development Advisory Committee (REDA) as a member of the senior committee and chair of the sub-committee advising on aviation human factors
• Elected Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA)
• Appointed Editor in Chief of Journal of Cognitive Engineering and Decision Making

Prof. Julian Rimoli
• Awarded the James Clerk Maxwell Young Writer Prize by the Philosophical Magazine and Philosophical Magazine Letters for his paper “A Three-Dimensional Multiscale Model of Intergranular Hydrogen-Assisted Cracking”. A cash award of $1000 will be awarded to Dr. Rimoli.

Prof. Stephen Ruffin
• Received the Most Valuable Professor Award from Sigma Gamma Tau at the April 2010 AE Senior Banquet
• Elected Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA)

Prof. Ryan Russell
• Appointed Associate Editor of the Journal of Optimization Theory and Applications

Prof. Massimo Ruzzene
• Reappointed Associate Editor of ASME Journal of Vibration and Acoustics 2011-2013
• Appointed Associate Editor Mechanics Research Communications

Prof. Joseph Saleh
• Received the Lockheed Martin Faculty Award

Prof. Jerry Seitzman
• Appointed Associate Editor of the American Institute of Aeronautics and Astronautics Journal of Propulsion and Power

Prof. Marilyn Smith
• Nominated and chosen as an Associate Editor for The Aeronautical Journal of the Royal Aeronautical Society, Britain's premier archival publication for AE. Marilyn's discipline area for the Journal will be rotorcraft.
• Appointed Associate Editor of the Journal of American Helicopter Society
• Appointed as a U.S. delegate to the U.S.-Egypt International Workshop on Wind Energy Development in Cairo, Egypt on March 22-24, 2010. She was an invited speaker by the National Science Foundation (NSF).
• Participant of Aeroelastic Prediction Workshop (AePW) organizing committee developing international workshops to explore state of the art nonlinear aeroelasticity computational methods. She is one of the three U.S. academic representatives among a total of 20 members from across the globe.

Prof. David Spencer
• Elected Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA).

Prof. Mitchell Walker
• Elected Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA)
Prof. Vigor Yang

- Appointed by the Cambridge University Press as one of the two co-editors for the *Aerospace Engineering Book Series*
- Elected Vice President for Publications for the American Institute of Aeronautics and Astronautics (AIAA)

**Student Honors and Awards (2010-2011)**

**Team Awards**

**2010 NASA University Student Launch Initiative (Undergraduate), 5th Place**
Advisor: Tony Contrada

**2009-10 NASA Aeronautics Amphibious Tiltrotor For Civilian Operations Competition (Graduate), 2nd Place**
GT Team: Bradley Regnier, Robert Scott, Ersel Olcer, Sahin Tetik, Adam Cortese, Alexander Robledo, Etienne Baer, Michael Roberts, Michael Osmen
U. Liverpool Team: Emma Timson
Advisor: Professor Dan Schrage

**2010 AHS Student Design Competition (Graduate), 2nd Place**
Team Members: Daniel Akins, Nicholas Austin, Corey Dillingham, Keeryun Kang, Stephanie Kersten, Aravind Krishnan, Zachariah Morford, Robert Schlein, Linyu Zhang
Advisor: Professor Dan Schrage

**2010 AIAA Team Space Design Competition (Undergraduate), 1st Place**
Team “SWEPT”: Matthew Levine, Sydney Lewis, Suyog Benegalrao, Stephen Rooks, Danielle Hansen, Gabriel Morocoima
Advisor: Professor Dan Schrage

**2010 AIAA Team Space Design Competition (Undergraduate), 2nd Prize**
“SciNet L-CoNERR” Team: Anthony Piplica, Andrew Punnoose, Subbiah Ramasamy, Amy Stevens, and Ankit Tiwari
Faculty Advisor: Professor David Spencer
Project Advisor: Dr. Carlee Bishop
Team Leader: Travis O'Neal

**International MultiConference on Engineering and Technology Innovation**
Orlando, FL - Best Paper in Session
Authors: Alex Forbes, Anant Patel, Chris Cone, Pierre Valdez, and Prof. Narayanan Komerauth

**Invitation to present Fall 2010 research “Mechanisms for Protecting Against Wind-Induced Particle Dispersion,” January 7th, 2011 at JPL.**
Experimental Aerodynamics and Concepts Group (EACG): Ryan Cornell, Kevin Reilley, Richard Zappulla II
Advisor: Professor Narayanan Komerauth

**2010 AUVSI International Aerial Robotics Competition (Graduate), 1st Place**
Team: D. Mike Sobers, Girish Chowdhary, Chintasid Pravitra, Claus Christmann, Allen Wu, Hiroyuki Hashimoto, Chester Ong, Roshan Kalghatgi
Advisor: Lockheed Martin Associate Professor of Avionics Integration Eric Johnson

**2011 AIAA Design Build Fly Competition, 1st Place**
Team led by Carl Johnson, Advisor: Dimitri Mavris

**Individual Awards**

**Juan Pablo Afman**
2011 Vertical Flight Foundation Scholarship

**Michael Aguilar**
2011 Robert A. Wolfe Fellowship
Paolo Aloi
2010-2011 Moneti Scholarship

Nelson Andriano
2010 Donnell W. Dutton Outstanding Aerospace Senior Award

Ben Arikpo
2011 Marcus J. Dash Research Fellowship

Laura Isabelle Armanios
Eaton Corporate Scholarship

Jeffrey Baldino
McDaniel Award, Georgia Tech Division of Professional Practice

Natasha Barbely
- Outstanding Undergraduate Researcher in Georgia Tech’s College of Engineering. $250 and a desk award. Selections based on research work of high quality and demonstration of leadership on the project.
- Vertical Flight Foundation Scholarship, Bachelor of Science category
- Paper Award, 2010 AHS Aeromechanics Specialists Meeting

Nicole Christine Bauer
- Boeing Corporate Scholarship
- 2011 Marcus J. Dash Research Fellowship

Steven Berguin
NASA Graduate Student Researchers Project (GSRP) Award

Kevin Bokelman
NASA Graduate Student Researchers Project (GSRP) Award

Filippo Casadei
Two first place paper awards for “Vibration Control of Thin Plates with Periodically Distributed Shunted Arrays”. Awarded First Place Graduate Division Region II (Southeastern US) 2010 AIAA Regional Student Conference Technical Paper Competition; and First Place Graduate Division Paper Competition 2011 AIAA Foundation International Student Conference at the 49th Aerospace Sciences Meeting, 4-7 January 2011.

Luis Reyes Castro
Georgia Tech Sigma Xi Best Undergraduate Thesis Award

Maria Chierichetti
- 2010 Amelia Earhart Fellowship (Zonta International)
- Winner of the Southeastern Lichten Competition. Qualified for national competition of Lichten Award (AHS) to be held in Spring 2011.

Zarrin Chua
NASA Graduate Student Researchers Project (GSRP) Award

Chung Kit Chung
2010-2011 AIAA Ellis F. Hitt Digital Avionics Scholarship

Azariah Ralph Cornish
- Leon A. Tolve, Outstanding Senior in Aerospace Engineering Award
- Briaerean Scholarship Cup

Alexandra Coso
National Science Foundation (NSF) Graduate Fellowship

Niyanti Ranjana Datye
Boeing Corporate Scholarship
Jessica Derenzy
Boeing Corporate Scholarship

Brendan Dessanti
2011 Marcus J. Dash Research Fellowship

Jennifer Lynn Dowling
• Alcoa Corporate Scholarship
• AIAA Outstanding Service Award

Aaron Ellertson
Centennial Outstanding Junior in Aerospace Engineering Award

Elizabeth Fleming
2011 NSF Graduate Fellowship

Alex Forbes
2011 Marcus J. Dash Research Fellowship

Jason Friedman
Honorable Mention, Goldwater Scholarship Competition

Ruhou Gao
2011 Marcus J. Dash Research Fellowship

Vrishank Raghav Shankare Gowda
2010 Vertical Flight Foundation scholarship, PhD category

Mike Grant
Best Atmospheric Flight Mechanics paper
2010 AIAA Atmospheric Flight Mechanics Conference

Sherrie Alyssa Hall
• Eaton Corporate Scholarship
• 2011 NSF Graduate Research Fellowship

Gregory Howe
First Place, Undergraduate Division Region II (Southeastern US)
2010 AIAA Regional Student Conference Technical Paper Competition

Jessica Renee Juneau
Honorable Mention, 2010 NSF Graduate Research Fellowship

Dustin Kilgore
2010-2011 AIAA Foundation Scholarship for rising seniors

Ashley Korzun
2010-2011 AIAA Foundation award for “Development of Supersonic Retropulsion for Advanced Planetary Entry Systems.”

Demyan Lantukh
Honorable Mention, 2010 NSF Graduate Research Fellowship

Trevor Laughlin
NASA Langley Graduate Student Researchers Project (GSRP) Award

Lianne Elizabeth Lewis
Raytheon Corporate Scholarship

Mark Louis Lieberbaum
Sigma Gamma Tau Sophomore Award

Silvio Mario Lopez
Vertical Flight Foundation Scholarship, Bachelor of Science category

Julie Shea Lundrigan
• Boeing Corporate Scholarship
• 2011 Marcus J. Dash Research Fellowship

Eric Lynch
Invited speaker by the National Science Foundation (NSF) at the U.S.–Egypt International Workshop on Wind Energy Development in Cairo, Egypt on March 22-24, 2010

Kento Masuyama
2010 NSF Graduate Research Fellowship

Matthew Miller
• 2010-2011 AIAA Foundation Scholarship for rising seniors
• 2011 Marcus J. Dash Research Fellowship
• James G. and Mary G. Wohlford Scholarship

John G. Mooney
2010 Vertical Flight Foundation scholarship, Masters of Science category

Ian Anthony Moore
Harvey Hochman, AE ’54, Scholarship Award

Jonathan Philip Morgan
Aerospace Engineering Outstanding Senior Scholar Award

Kevin Murtha
2011 Marcus J. Dash Research Fellowship

Harold Nikoue
2011 Marcus J. Dash Research Fellowship

Jacqueline O’Connor
ARSC (Achievement Rewards for College Scientists) Scholars Award

Jagannath Pranatharthikaran
2011 Marcus J. Dash Research Fellowship

Megan Marie Pendleton
Lockheed Corporate Scholarship

Nicholas Picon
2nd Place Student Poster American Association for the Advancement of Science (AAAS) Annual Meeting, Washington, DC
Advisor: Prof. N. Komerath

Eliot Quon
• 2010 Vertical Flight Foundation scholarship, Masters of Science category
• ARCS (Achievement Rewards for College Scientists) 2010 Foundation Scholar
• United Technology 2010 Rotorcraft Center Fellow
• 3rd Place Student Poster at 10th Overset Grid Symposium, 2010
• 2011 Vertical Flight Foundation Scholarship, Ph.D. category

Nicolas Reveles
2010 Vertical Flight Foundation scholarship, Masters of Science category

Sarah Rieger
Laboon Award, Georgia Tech Division of Professional Practice

Alfredo Salazar
2011 Marcus J. Dash Research Fellowship

**Sangita Sharma**  
United Technology Corporate Scholarship

**John Patrick Shivanandan**  
Henry Ford II Scholar Award

**Shreekrishna**  
AIAA Foundation Martin Summerfield Graduate Award in Propellants and Combustion

**Rajiv Shenoy**  
2011 Vertical Flight Foundation Scholarship, M.S. category

**Lizabeth Shoshana Sidlov**  
United Technology Corporate Scholarship

**Zahra Sotoudeh**  
United Technologies Corporation Rotorcraft Center Fellowship Award

**Alexandra Katherine Stavros**  
Boeing Corporate Scholarship

**Stephanie Stout**  
- Caterpillar Mentoring Award  
- Raytheon Corporate Scholarship  
- Pay it Forward Corporate Scholarship

**Katie Sullivan**  
National Science Foundation (NSF) Graduate Fellowship

**Christianna Taylor**  
JPL Graduate Student Researchers Project (GSRP) Award

**Sarah Narceille Vaden**  
Raytheon Corporate Scholarship

**Jonathan Walker**  
2011 NSF Graduate Research Fellowship

**Aimee Nicole Williams**  
- Boeing Corporate Scholarship  
- 2011 NSF Graduate Research Fellowship

**Eliya Wing**  
Lockheed Corporate Scholarship

**Lawrence Wong**  
2011 Marcus J. Dash Research Fellowship