Once again, we celebrate a year of milestones for Ohio State’s top-ranked Department of Mechanical and Aerospace Engineering (MAE). In 2014, we have continued to live our mission of educating future leaders, generating and disseminating original knowledge and technology, and finding innovative solutions, while providing one of the finest learning experiences for our highly competent young generation and preparing them to successfully address society’s challenges.

Our educators are among the best in the nation, recognized for their distinguished contributions and accomplishments. I am pleased to congratulate Professor Datta Gaitonde and Levent Guvenc on their election to Fellow status with the American Society of Mechanical Engineers (ASME), and James Gregory on his election as a 2014-15 Fulbright Scholar.

We pride ourselves in providing a diverse and rich learning environment, housed in the state-of-the-art, incomparable Peter L. and Clara M. Scott Laboratory. Our faculty, research fellows, and students focus on applications and discoveries for advanced aerospace and automotive systems, bioengineering, energy and environmental quality, materials and manufacturing, micro and nanotechnology, and nuclear science and engineering.

Our graduate programs are ranked in the top 25 programs in their disciplines in the U.S., and our incredibly talented students who choose to pursue their graduate education at Ohio State, have gone on to excel in industry, academia, and government.

Finally, we celebrate the accomplishments of our distinguished alumni, who instill "Buckeye Pride" across the globe through excellence in their professions, and contributions to the field of engineering.

I take this opportunity to thank all who have invested in our programs, faculty, and students, and invite you to consider supporting the excellence of our future leaders through a gift to the Leadership Fund (314225).

AHMET SELAMET
Professor & Chair
Department of Mechanical & Aerospace Engineering
Graduate Student Achievement

Outstanding research, teaching and an exceptional student experience are the hallmarks of MAE’s graduate studies programs. Housed in the state-of-the-art Peter L. and Clara M. Scott Laboratory, MAE’s graduate programs in mechanical, aerospace, and nuclear engineering are ranked in the top 25 programs in their disciplines in the U.S. Our graduates emerge highly qualified, and excel in industry, academia, and government. Recent prestigious awards earned by our graduate students include:

Graduate Research Fellowships funded by the National Science Foundation (NSF) were awarded to Benjamin Shurtz and Scott Monfort. Shurtz’s medical research interests include biomechanics and locomotion. Monfort studies mechanisms related to lower extremity sports injuries.

Aeronautical and Astronautical Engineering (AAE) graduate student and full-time employee of the U.S. Navy, David Gonzales, was awarded an American Society for Engineering Education (ASEE) Science, Mathematics and Research for Transformation (SMART) Scholarship. Established by the Department of Defense, the scholarship supports graduate students pursuing degrees in Science, Technology, Engineering, and Mathematics (STEM). The American Society for Engineering Education is a non-profit member association dedicated to promoting and improving engineering and engineering technology education.

U.S. Army veteran and mechanical engineer PhD candidate, Greg Freisinger, was named a 2014 Tillman Military Scholar, one of just 60 selected from over 7,500 applicants. Freisinger, who earned a Bronze Star for his service in Operation Iraqi Freedom, is Ohio State’s first Tillman Military Scholar.

AAE graduate student Logan Riley and Professor Datta Gaitonde, John Glenn Chair Professor, were awarded Air Force Research Laboratory/Dayton Area Graduate Studies Institute’s Student-Faculty Research Fellowship for research in the area of hypersonic flight.

Kirk Brouwer, a PhD student in aerospace engineering, received a National Defense Science and Engineering Fellowship. His research is focused on hypersonic technologies, considered a “final frontier” in aeronautical research and development.

Faculty Recognition

MAE has an excellent academic reputation among peer programs, and within major industry and government sectors. Excellence in research and teaching attracts the best and brightest students, providing an unparalleled learning experience. Several MAE faculty were honored in 2014 for their academic achievements:

The Board of Governors of the American Society of Mechanical Engineers (ASME) elected Professors Datta Gaitonde and Levent Guvenc to ASME Fellow status.

Gaitonde, a member of MAE’s aerospace engineering faculty since 2010, is also principal investigator for the Collaborative Center for Aeronautical Sciences, and John Glenn professor at Ohio State. Gaitonde is a world leader in the field of advanced computational methods, and their application to turbulent flows.

Guvenc joined MAE in 2014 as the newest member at the Center for Automotive Research. He is recognized for significant contributions in applied robust control, mechatronics, cooperative mobility of road vehicles, automotive control, and control applications in Atomic Force Microscopy.

ASME confers the distinction of Fellow grade membership to candidates who have been nominated by their peers, and selected by the Fellow Review Committee with final approval of the Committee of Past Presidents. These individuals are recognized for their distinguished career and engineering achievements.

James Gregory, associate professor in MAE, was selected as a 2014-15 Fullbright Scholar. Grant funding will support Gregory’s research at the Technion in Haifa, Israel in the aerodynamics of vertical-axis wind turbines, and methods to control the flow to make turbines more efficient. The Technion, a one-of-a-kind facility for modeling dynamic stall for enhanced wind turbine performance, is ranked among the world’s top 100 universities. Fullbright Scholar recipients are selected by the Council for International Exchange of Scholars, which administers the program for the U.S. Department of State.
CALL FOR NOMINATIONS FOR 2015 ALUMNI AWARDS

Since 2006, more than 50 distinguished MAE alumni have been recognized for their significant career accomplishments. The Alumni Awards Committee has established criteria in nine categories, found on the website at mae.osu.edu/department-alumni-recognition-program.

Nominations are now being accepted for the 2015 awards. Nomination forms can be found on the Alumni Recognition Program page of the website. Submit your nomination with supporting information to Gail Dickson (dickson.115@osu.edu) by February 2, 2015, Groundhog Day.
Investing in the Future

Giving by individuals and corporations remains a cornerstone to MAE's ability to attract and retain outstanding faculty, students and staff, as well as to further develop our mechanical, aerospace and nuclear engineering programs.

With your help, we continue to provide seminal research opportunities for our faculty and graduate students, creating innovations, and developing new frontiers in engineering. Our alumni and friends stay connected and give back, opening doors of opportunity for our future leaders.

As a result, we continue to strive for excellence, seeking to grow our competitiveness in recruiting the best and brightest students and faculty, and investing in the technologies that reinforce the quality of the student experience.

You can help by giving in ways that grow over time, through gifts designated for endowments or current-use funds to advance our mission of placing students first:

- Fellowships for graduate students
- Scholarships for undergraduate students
- Scholarships for honors research
- Enhancing our research facilities
- Innovative research and teaching

Help us move boldly into the future! To discuss how your philanthropic giving plans might match our needs, contact Debbie Schroeder, senior director of development, at schroeder.468@osu.edu, or at 614-247-7297. Learn more at go.osu.edu/give-to-mae.

Donor Acknowledgment

MAE's donor honor roll recognizes contributors to our mechanical, aerospace, and nuclear engineering programs from December 1, 2013 through October 31, 2014, including corporate matching funds and gifts from individuals, trusts and corporations. View the entire list at mae.osu.edu/donor. Thank you for your generous support!

Alumni Honored

Several MAE Alumni were among 15 honored at the 17th Annual Excellence in Engineering and Architecture Alumni Awards on October 17, 2014, as part of Homecoming Weekend festivities. The awards recognize alumni for achievement, service, excellence in their professions, and contributions to their field.

Robert (Bob) Lee (BS ’78 ME) received the Benjamin G. Lamme Medal for meritorious achievement in advancing engineering. He is vice president and head of engine, powertrain, and electrified propulsion systems engineering at Chrysler Group LLC, among other roles. Lee received the college’s Distinguished Alumnus Award in 2004, and currently serves as a senior member of the Ohio State Center for Automotive Research’s Industrial Advisory Board.

Paul Cody Phipps (BS ’84 ME) and Liz Tinkham (BS ’84 AAE) received the Distinguished Alumni Award for outstanding professional achievement in engineering.

Matching Gifts

Many employers sponsor matching gift programs, which can double or triple your gift. If your company is eligible, request a matching gift form and send the completed form with your contribution. We do the rest!