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**ON THE COVER:** Researchers in the Human-Robot Interaction Lab, led by Professor Matthias Scheutz, are working to improve robots’ natural language capabilities and responses to human behavior. Read more on pages 22–23.
MESSAGE FROM THE DEAN

It has been my great pleasure to serve the School of Engineering (SOE) over the past 11 years. As I reach my final year as dean, I look back on my time here at Tufts with great joy. The SOE continues to grow in quality, national visibility, and size. This year was the most selective and successful undergraduate admissions cycle in the school’s history, with an acceptance rate of 14 percent. The incoming undergraduate class of 2018 is broadly talented, with women making up a third of the student body. At the graduate level, applications increased by 22 percent and we awarded a record number of Ph.D. degrees.

I am also happy to report that we are continuing to recruit remarkable individuals to our faculty, with five successful hires in the tenured/tenure track and two additions to our Professor of the Practice cohort. Our faculty received many accolades this year. Of special note is Maria Flytzani-Stephanopoulos, who was elected to the National Academy of Engineering. Three of our junior faculty members were honored with prestigious faculty development awards.

The SOE continues to enjoy growth in research productivity, with fiscal year 2014 research expenditures exceeding $15.7 million and a continued increase in the number of active grants. In addition, for an impressive sixth consecutive year, the SOE led all Tufts schools in technology transfer activity. Details of these and other highlights are provided in the following pages.
This year also was a busy one for strategic planning, both at the university level and at the SOE, where we continued our school-level strategic planning process begun in the last academic year. Based upon the ideas generated at several school leadership retreats, a 10-year Strategic Planning Framework document was drafted in the fall, in parallel with the finalization of the university’s T10 Strategic Plan. In consultation with our various constituents, including faculty, staff, students, and alumni, this draft was discussed and refined to produce a final framework document in the spring semester. In the coming academic year, we will continue to build upon this strategic planning framework to identify opportunities, strategic steps, and resources that will be associated with the pursuit of our mission over the next 10 years. More information on this strategic framework is available at engineering.tufts.edu/framework.

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SELECTED FACULTY ACHIEVEMENTS

The achievements of our faculty drive innovations and inspire our students to pursue knowledge and scientific advances with equal dedication and vigor. It is always gratifying when their accomplishments are honored nationally, and this past year was marked by significant recognition. Maria Flytzani-Stephanopoulos (ChBE), the Robert and Marcy Haber Endowed Professor in Energy Sustainability, was elected to the National Academy of Engineering in recognition of her contributions to clean energy technology. Professor Karen Panetta (ECE) was honored with the 2013 Institute of Electrical and Electronics Engineers (IEEE) William E. Sayle II Award for Achievement in Education “for innovative approaches to engineering education and inspiring young people to pursue a career in engineering.” Associate Professor Soha Hassoun (chair, CS) was named one of 33 luminaries of the Electronic Design Automation Consortium, Frank C. Doble Professor Fiorenzo Omenetto (BME) was named a fellow of the American Physical Society “for outstanding contributions to the development of silk-based optical structure and photonic devices,” and Professor Elena Naumova (CEE) was elected to the International Statistical Institute for “distinguished contributions to the development and application of statistical methods.” University Professor David Walt, the Robinson Professor of Chemistry in the School of Arts and Sciences (A&S) and adjunct professor of BME, received the prestigious Esselen Award for chemistry in the public interest from the
Northeastern Section of the American Chemical Society (ACS) for his work in developing microarrays and single-molecule detection for understanding and treating disease.

A number of our junior faculty members were honored with prestigious professional development awards. Bree Aldridge, assistant professor in molecular biology and microbiology at Tufts University School of Medicine and adjunct assistant professor in BME, received a 2013 National Institutes of Health Director’s New Innovator Award, a five-year, $1.5 million grant for her research focused on improving drug treatments for tuberculosis. Assistant Professor Lauren Black (BME) was awarded a National Science Foundation (NSF) Faculty Early Career Development (CAREER) Program award to support his research in cardiac stem cell differentiation. Black’s studies will look at cells’ biophysical and biochemical environment to better understand how stem cells can be influenced to differentiate to cardiac muscle cells. Assistant Professor Usman Khan (ECE) was awarded an NSF CAREER award for his research in remote structural health monitoring of the nation’s infrastructure. Khan’s research will enable data collection via unmanned aerial vehicles (UAVs) that will collaborate with existing wireless sensor networks. Khan, along with Associate Professor Mai Vu (ECE), was also elevated to the rank of Senior Member of the IEEE, an honor held by fewer than 8 percent of its more than 415,000 members, while their colleague, Associate Professor Thomas Vandervelde (ECE) was elevated to the rank of Senior Member of the Optical Society of America. We were delighted to honor another of our stellar junior faculty members, Assistant Professor Daniele Lantagne (CEE), with the Usen Family Career Development Professorship.
Our six successful promotion and tenure cases this year are another testament to the strength of our faculty. Babak Moaveni (CEE) and Thomas Vandervelde (ECE) were promoted to tenured associate professor, Associate Professors Marc Hodes (ME) and Emmanuel Tzanakakis (ChBE) were awarded tenure, and David Gute (CEE) and Kyongbum Lee (chair, ChBE) were promoted to full professor.

No university can call itself great without great teachers. This year the fundamental importance of excellent and dedicated teaching was recognized with several faculty awards. Professor Chris Rogers (ME, CEEO) received the Henry and Madeline Fischer Award, awarded annually to a faculty member selected by graduating seniors as the School of Engineering’s “Teacher of the Year.” Associate Professor Thomas Vandervelde (ECE) won the graduate studies AS&E Faculty Teaching and Mentoring Award, and Assistant Professor Matthew Panzer (ChBE) received the Recognition of Undergraduate Teaching Excellence (ROUTE) Award, which honors tenure-track full-time faculty members who demonstrate excellence in teaching and advising, who show concern for their students’ academic and personal growth, and who convey a passion and enthusiasm for their field of study.

Finally, this year marked the retirement of three extraordinary individuals who contributed much to the academic enterprise: Senior Lecturer Lee Minardi (CEE), an expert in computer-aided design and visualization, who taught at Tufts since 1990; Robert Hannemann, director of the Tufts Gordon Institute (TGI) and professor of the practice, under whose leadership TGI greatly expanded its Master of Science in Engineering Management and entrepreneurship programs; and Professor Lewis Edgers (CEE), E66, who served the SOE with distinction as department chair and associate dean. A beloved educator and scholar in geotechnical engineering, Professor Edgers also was honored with the Seymour Simches Award for Distinguished Teaching and Advising for his more than four decades of service to the university.
SELECTED STUDENT ACHIEVEMENTS

The character and leadership of the SOE depends on attracting remarkable students as well as faculty. A number of those students rose to distinction this year. Bronson “Quinn” Wongkew, E14, received a Tufts Presidential Award for Citizenship and Public Service. Wongkew, who is president of the Tufts Robotics Club, introduced engineering concepts to middle and high school students and created robotics classes targeting non-engineering students. This year’s Tufts University Alumni Association Senior Award honorees included two engineering students: Briana Bouchard (ME) and Laura Burns (BME). Sophomores Kathleen Cachel (CS) and Charles Colley (engineering science) were members of one of 13 interdisciplinary teams, selected from among 6,755 international entrants, named Outstanding Winners of this year’s Mathematical Contest in Modeling. Junior Andrew Rosen (ChBE) was awarded a prestigious Barry Goldwater Scholarship and sophomore Alexander Lenail (CS) was named a Kleiner Perkins Caufield & Byers Engineering Fellow.

Our graduate students garnered notable research awards: Nicole Pfiester Latham (ECE) was awarded an NSF Graduate Research Fellowship for her work using metamaterials to enhance thermophotovoltaic efficiencies and Jory Hecht (CEE), an Integrative Graduate Education and Research Traineeship (IGERT) fellow in the Water Diplomacy program, received a Department of Energy Hydro Research Foundation award. Hailey DiSpirito (BME) was awarded a Draper Fellowship and both Jeannine Coburn and Olena Tokareva (BME) received National Institutes of Health (NIH) fellowships. Elena Jacobson (ChBE) was
the recipient of a Department of Defense National Defense Science and Engineering Graduate Fellowship.

Other doctoral students recognized for outstanding research include Ming Yang (ChBE), who received an International Precious Metals Institute Student Award; Dan Afergan (CS), who received an Association for Computing Machinery (ACM) Special Interest Group on Human-Computer Interaction Best of CHI Honorable Mention Award for his paper, “Dynamic Difficulty Using Brain Metrics of Workload”; Tyler Marcet (CEE), who was a winner in Geosyntec’s fifth annual Student Paper Competition; and Mohammadreza Doostmohammadian (ECE), who was awarded a Best Student Paper Finalist Award at the IEEE International Conference on Networking, Sensing and Control. Postdoctoral fellow Arvind Saibaba (ECE) was the lead author on an outstanding paper that received an Editors’ Choice Award from Water Resources Research. Tabitha Solomon, EG15 (ME), received a best presentation award at the 2014 Human Factors & Ergonomics Society-New England Chapter conference, the fifth consecutive year this award has gone to a Tufts student.
Walking down the street these days, it isn’t uncommon to see someone check their watch—and find more than the time. Dick Tracy’s a reality on our wrists. But what if these gadgets counted more than the number of steps taken, calories burned, or incoming emails?

What if they could tell us if that bump on the head was actually a concussion? If that rapid pulse was the start of a seizure?

Nana Kwasi Kwakwa, E15, is working on a wireless device that could monitor serious health issues and provide crucial data to doctors. The research of this electrical engineering major is funded by the Summer Scholars Program, which encourages rising juniors and seniors to pursue 10-week research projects in collaboration with a faculty member. (Kwakwa’s advisor, Associate Professor Valencia Joyner Koomson, investigates the design and implementation of innovative high-performance and low-power microsystems in her Advanced Integrated Circuits and Systems Laboratory.)

Kwakwa’s wireless sensor uses near-infrared spectroscopy—selected because it has no known harmful effects. The noninvasive device shines near-infrared light into tissue, and that light is either absorbed or reflected back into small sensors that provide data on the levels of oxygenated and deoxygenated blood in the tissue. When the device is worn on the head, it helps in detecting which areas of the brain are more active during different tasks.

Currently, the device is about the size of a pack of gum. Kwakwa and Koomson want to make it even smaller—small enough, for example, to fit in the helmet of a football player and detect those concussion symptoms.

Koomson and Kwakwa are now exploring multispectral sensors and frequency division multiplexing—a technology borrowed from radio transmission.
Our students are also remarkable innovators. Senior Nana Kwakwa (see page 9) and junior Alex Henry (ECE), in collaboration with doctoral students Tomoki Shibata, Samuel Hincks, and Daniel Afergan (CS), shared the Ricci Interdisciplinary Prize for their project to create a wireless device that monitors blood oxygen concentration in the brain; the device will help develop an adaptive information delivery system to respond to user cognitive workload. The ingenuity and hard work of Tufts engineers were rewarded at this year’s $100K New Ventures Competition, hosted by Tufts Gordon Institute. Seniors Briana Bouchard, Diana Burns, and Claire Rogers (ME) took second place in the Classic Ventures track for developing ivProtek, a unique, streamlined, and painless way to secure IVs. Sophomore Danielle Feerst (engineering psychology) won second place in the Social Entrepreneurship track for her iPad application project AutismSees that helps autistic adults develop their public speaking skills. NSF IGERT Fellow Kyle Alberti (BME) won $18,000 in The Innovation Challenge, which promotes the translation of Soft Material Robotics IGERT research findings to inventions.

Our engineering student-athletes continue their amazing contributions. Rising sophomore Mitch Black (ME) was named an NCAA All-American in track and field. Junior Allyson Fournier (ChBE) led the softball team to its second national championship and was named a DIII Woman of the Year nominee. Senior and team captain Dan Alles (CEE) as well as seniors Beau Wood (ECE) and Brian Droesch (ME), junior Jeff Chang (ME), and freshman Tyler Olney represented the SOE on the men’s NCAA lacrosse championship team. Wood was named to the U.S. Intercollegiate Lacrosse Association’s All-America team for a third consecutive year.
We are proud of our accomplished alumni, who continue to be at the forefront of their professions. This year, Richard H. Frenkiel, E63, recipient of the 2013 Charles Stark Draper Prize and the 1994 National Medal of Technology and Innovation, was awarded the SOE Vannevar Bush Dean’s Medal for his contributions to the development of cellular mobile communications systems. Frenkiel delivered the second Vannevar Bush Dean’s Medal Lecture to a standing-room-only crowd in April. Anthony D. Cortese, E68, EG72, received a Lifetime Achievement award from the Environmental Protection Agency, as well as an Environmental Merit Award on behalf of Second Nature, a Boston-based organization committed to promoting sustainability through higher education, where he is a senior fellow. Adam Weber, Ph.D., E99, EG99, a staff scientist at Lawrence Berkeley National Laboratory, received an NSF Presidential Early Career Award for Scientists and Engineers (PECASE), the highest honor bestowed by the United States government on science and engineering professionals in the early stages of their independent research careers. In addition, he was awarded the 2014 Charles W. Tobias Young Investigator Award from the Electrochemical Society for his promise as a developing leader of research in fuel cells, flow batteries, and solar-fuel generators. Sharon D. Beard, EG95, received the 2013 Lorin Kerr Award from the Occupational Health &
Safety Section of the American Public Health Association for her two decades of leadership in developing and promoting safety and health training programs for low-income workers. Beard, an industrial hygienist with the National Institute of Environmental Health Sciences (NIEHS) Worker Education Training Program, helped establish the very successful NIEHS Minority Worker Training Program, which has trained more than 10,000 workers since 1995. Sampathkumar Veeraraghavan, EG10, was honored with both the IEEE-Eta Kappa Nu Outstanding Young Professional Award and the 2013 IEEE Member and Geographic Activities Achievement Award for technological and leadership excellence. Jeremy Jo, E08, co-founder of Benevolent Technologies for Health (BeTH), took first place in the Tufts $100K New Ventures Competition classic ventures track for the world’s first custom-fit prosthetic liner, aimed at increasing amputee comfort.

At this year’s Graduate Student Awards Ceremony, Bonnie Schnitta, EG78, president of SoundSense LLC, received the SOE Outstanding Career Achievement Award for her professional success, which includes numerous patents for acoustic technologies. Matt Lyman, E96, EG99, director of software engineering at Kiva Systems, received the SOE Outstanding Career Service Award in recognition of his devotion to students and his long-standing dedication to the electrical engineering curriculum.
When Robert J. Haber sees a problem, he leads the search for solutions. As a young chemical engineer, Haber got a close look at the international oil crisis of the late 1970s and early '80s. Now he strongly advocates for energy sustainability. To help spark discoveries, he and his wife, Marcy, pledged $2 million to establish the Robert and Marcy Haber Endowed Professorship in Energy Sustainability in 2007, which is currently held by Maria Flytzani-Stephanopoulos.

Realizing the need for more financial aid at Tufts, the Habers also endowed a scholarship fund. Robert Haber has served on the school’s Board of Advisors since 2002 and is a member of the Tufts Alumni Council. He is also active with the Entrepreneurial Leadership Program, and has served as a visiting lecturer at Tufts.

A chartered financial analyst, Haber was chief investment officer of Fidelity Investments Canada for 12 years. Earlier in his career with Fidelity, he held the positions of analyst, portfolio manager, director of research, and head of equities. He recently retired from his position as the CEO and CIO of Haber Trilix Advisors in Boston. He is also an owner of the Boston Celtics basketball team and a member of its board of directors.

**Q. Why did you endow a professorship focused on energy sustainability?**

**A.** If we can find effective substitutes for oil, especially in transportation, the world will be a better place. My wife and I chose to establish the professorship at Tufts because of my close affiliation with the university and because I imagined that whatever we did, if it worked, would contribute to a disruptive technology. I thought a small, innovative place like Tufts and the School of Engineering, with Dean Linda Abriola’s leadership, would be the place for groundbreaking work.

**Q. Why is providing financial aid important to you?**

**A.** The university needs a lot more endowment for scholarships. Schools that compete with Tufts can offer more aid to attract the best students. Sixty thousand dollars is a challenge for most families. You can’t do what I did, which was to work my way through college. Tuition wasn’t that much back then, so I could manage. Not now.

**Q. You try to share a meal with each recipient of your endowed scholarship. Why is that important to you?**

**A.** In so much of philanthropy, you don’t know the people it’s affecting on a daily basis. It’s fascinating when you can say, “Here’s the person whose life you changed.” The student who receives the scholarship writes to us, and when that letter comes, everyone in our family feels good about it. A few of the students have kept in touch, and it is interesting to hear that those I met as sophomores or juniors have now gone on to get really interesting jobs around the country.
UNDERGRADUATE AND GRADUATE EDUCATION

It was another banner year for SOE undergraduate admissions. Thanks to the expertise and enthusiasm of Dean of Admissions Lee Coffin, his colleagues in admissions, and dedicated alumni volunteers all across the country, engineering applications rose an astounding 17 percent, to a record high of 3,727, a seventh consecutive record pool. The acceptance rate, at 14 percent, was the most selective in the school’s history (20 percent last year, 28 percent in 2010), while we maintained the high quality and diversity of our accepted students (SAT composite 2206, 33 percent women, 26 percent Americans of color, and 8.5 percent international). With 60 percent of admitted students hailing from public high schools, need-based financial aid was critical; 45.9 percent of those admitted received a Tufts grant, up from 41 percent last year.

Under the able direction of Professor Karen Panetta (ECE), who was named associate dean for graduate education in September 2013, our graduate programs have sustained their growth, with applications up by 22 percent and fellowship offer acceptances continuing at 30 percent. In the fall, we will welcome six new Provost and Dean’s Fellows and two Stern Fellows. Applications to the NSF IGERT program in Soft Material Robotics increased by 44 per-
cent. This program graduated its first doctoral student in May, one of the record 32 students on whom we conferred doctoral degrees this year.

TGI will welcome 63 new students in its MSEM program in the fall, bringing its enrollment to 128 students. This year’s student body had representation from 73 different companies, including BAE Systems, Bose, Boston Scientific, DataXu, Draper Laboratory, EMC, Entegris, GE, Genzyme, Google, Instrumentation Lab, Johnson & Johnson, Keurig, L-3 Communications, PerkinElmer, Philips, Millennium Pharmaceuticals, MITRE, Parsons Brinckerhoff, Pfizer, Raytheon, Shire, U.S. Army Natick Research & Development Labs, and Weston & Sampson.

A number of new efforts were undertaken this academic year to enhance our curricula. Nine new courses were approved by the SOE Curriculum Committee, including seven courses in engineering management. Among these was the SOE’s first “blended” course that will involve both traditional classroom and online content delivery. Eight first-year experience courses were offered to 245 undergraduates in fall 2013. Course topics included global product development, simple robotics, climate change impacts, and nanotechnology in biomedical engineering. Students rated these experiences highly (greater than four out of five) for increasing their engagement in and excitement for engineering.
In response to feedback from students, faculty, alumni, and other program stakeholders, the BME department made important changes to its B.S. program. We dropped the onerous application process and eliminated enrollment caps for first majors. In addition, up to 20 students may now choose a research-focused, rather than course-focused, degree path.

The Entrepreneurial Leadership Studies (ELS) minor continues to be popular for engineering students as well as students from A&S. More than 500 undergraduates enrolled in ELS classes, with 75
students completing the minor, the highest number since its inception. A total of 144 students participated in Engineering Management Minor classes and 13 undergraduates completed this minor.

The CS department, which offers majors and minors in A&S and SOE, is also enjoying significant growth. The number of undergraduate CS bachelor-degree recipients has more than doubled in the past five years, with a second doubling expected to occur in just one year (from 55 in AY13–14 to 111 in AY14–15). This year, 285 students declared majors in CS (185 in A&S and 100 in SOE).
The SOE continues to enjoy significant growth and momentum in research productivity. Total annual research expenditures exceeded $15.7 million. Faculty submitted 305 proposals and had 258 active grants, with more than 140 new and supplemental awards. The funded proposal portfolio continues to be balanced across a number of sources, with NIH and NSF funding leading the federal sponsors and a growing percentage of corporation and foundation support. Three-quarters of SOE faculty are now funded by external grants (up from 40 percent in FY03).
This year, in the third round of provost-funded collaborative teaching and research grants, SOE faculty members were represented on nearly 75 percent of the funded proposals. They garnered one Tufts Innovates! and 19 Tufts Collaborates! awards. Of the Collaborates awards, seven have engineering principal investigators. Four of our faculty members were also recipients of awards from the AS&E Faculty Research Awards Committee.

The sections below highlight other significant achievements in interdisciplinary research and education, organized by strategic area.

**Engineering for Human Health**

Stern Family Professor of Engineering **David Kaplan** (chair, BME) and Vannevar Bush Professor **Michael Levin** (biology) received a $1 million W. M. Keck Foundation grant that will fund their transformative research in tissue regeneration for the next three years. Professors **Kyongbum Lee** (chair, ChBE) and **David Kaplan**, with Assistant Professors **Qiaobing Xu** and **Lauren Black** (BME), were awarded an NSF Major Research Instrumentation (MRI) grant for a state-of-the-art mass spectrometry system for a range of metabolomics and proteomics applications. Professors **Lee** and **Soha Hassoun** (CS) secured a grant from the NSF to identify bioactive metabolites generated by the gut microbiota that impact the inflammation of adipose tissue in obesity. The discovery of naturally resident bacterial metabolites with anti-inflammatory properties could lead to new, safe treatment modalities for obesity as an inflammatory disease.
Engineering for Sustainability

Associate Professor Thomas Vandervelde (ECE) received a $1.5 million NSF MRI grant to build a multichamber molecular beam epitaxy system to generate advanced semiconductors not only for his research needs, but also for external academic and industrial users. Professor Jeff Hopwood and Research Assistant Professor Alan Hoskinson (ECE) received funding from the U.S. Air Force for a new research program (with Emory University, the Air Force Institute of Technology, and industrial partners) to develop excited-state rare-gas lasers. The Tufts team will design low-voltage microdischarges operating at atmospheric pressure and then measure their production of the metastable atoms that are at the core of the proposed laser technology. In addition, Professor Hopwood was also awarded a prestigious five-year Multi-University Research Initiative (MURI) grant; this collaboration, which includes Stanford, Penn State, UCLA, UT-Austin, and the University of Washington, focuses on the fundamental science for development of high bandwidth reconfigurable plasma-based systems to control electromagnetic fields.

Engineering the Human-Technology Interface

Professor Matthias Scheutz (CS) received a MURI grant from the Office of Naval Research (ONR) to develop fully autonomous robots able to understand commands, ask questions to clarify instructions, and learn to recognize objects. The $7.5 million award will allow collaborators at Brown, RPI, Georgetown, and Yale to explore the development of robots with “moral competence”—or the ability to make decisions, take actions, and justify their actions in situations that contain a moral dilemma. Professors Scheutz and co-PI Linda Tickle-Degnen (Occupational Therapy, A&S) also received funding
from NSF’s Division of Information and Intelligent Systems to produce an architecture for a co-robot mediator for people with “facial masking” due to Parkinson’s disease, which reduces their ability to signal emotion and intentions to their caregivers and health-care providers.

McDonnell Family Assistant Professor of Engineering Education Ben Shapiro (CS) was awarded funding from NSF and the National Center for Women & Information Technology (NCWIT) Academic Alliance Seed Fund, which provides U.S. academic institutions with grants to develop and implement initiatives that recruit and retain women in computing and technology fields of study. Professor Shapiro will design a curriculum that teaches computational thinking and engineering through the design and construction of programmable electronic musical instruments. Professor Mohammed Afsar and Associate Professor Valencia Joyner Koomson (ECE) were awarded a $470,000 NSF grant to develop low-cost, miniaturized devices and circuits for use in high-frequency radar and communications systems. Associate Professor Mai Vu (ECE) was the recipient of a grant from the ONR to support her work on robust and reliable multi-user wireless communication systems. Associate Professor Norman Ramsey (CS) was awarded funding from the Defense Advanced Research Projects Agency to create vastly improved language technology for probabilistic programming.
You want a robot that knows how you feel. Don’t you?

By David Levin

Matthias Scheutz spends his day talking to robots. In the future, he hopes we will, too.

Scheutz, a computer scientist at the School of Engineering, notes that robotic devices like the Roomba vacuum cleaner are becoming more and more common in homes and offices. Yet our interaction with them is entirely one-sided—they simply can’t comprehend our words or gestures.

“For a robot to be a truly useful helper to humans, it needs to interact with us on our terms,” says Scheutz, who is also a Bernard M. Gordon Senior Faculty Fellow. That means it needs to master the rules of language, respond to verbal commands, and grasp the nuances of human communication.

Understanding spoken words is a tough job for a machine, let alone parsing hidden meanings and context. Scheutz is trying to change that, however, thanks in part to funding from the Gordon Fund, a 2003 gift that supports faculty development in both the School of Engineering and Tufts Gordon Institute. He and his lab are working on a complex software framework called DIARC (Distributed Integrated Affect Reflection Cognition), a sort of robot “brain” that will let machines respond to both our language and our subtle social cues.

If engineers can make robotic devices more human-like in the way they interact with us, Scheutz thinks those robots can start to play more useful roles, like aiding search-and-rescue teams after natural disasters, or caring for elderly patients. He and his team are already starting to develop a “helper” robot for people with Parkinson’s disease, a neurological disorder that can rob patients of fine muscle control.

“Parkinson’s makes it hard for patients to express their emotions,” Scheutz says. “You can’t just look at their face to see if they’re smiling, or listen to their tone of voice to see if they’re in a good mood. You need to figure that out based on the context of what they’re saying.” By using a robot to do the job, it might be possible to create a sort of virtual mediator between doctor and patient, providing caregivers with a better sense of their patients’ emotional state.

“Essentially, we want robots to help make up for what patients can’t do,” he says.
“For a robot to be a truly useful helper to humans, it needs to interact with us on our terms.”

Tufts researchers are exploring how robots can read people’s subtle, nonverbal cues. Given better communication skills, robots could help the elderly or aid with disaster response.

Software developed at Tufts lets robots learn new words and actions in real-time contexts.

Not all serious, Nao can play soccer and dance. It’s all in the programming.

Nao (pronounced “Now”), pictured below, will recognize you, hear you, and talk to you.

PERSONAL

OPPOSITE: One of the lab’s smaller robots, called Nao, with Professor Matthias Scheutz. The lab is creating software to make robots respond better to language and social cues.
Technology Transfer

The Tufts Office of Technology Licensing and Industrial Collaboration reported 84 invention disclosures from across the university in FY14; of these, the School of Engineering led all Tufts schools, for the sixth consecutive year, accounting for 36 percent (n=30). In addition, Technology Transfer collaborated with the Center for Engineering Education and Outreach (CEEO) for the first “Starting-Up” Entrepreneurship Workshop in April. This daylong event featured lectures, interactive workshops, and speakers from SparkFun Electronics, iCreate to Educate, Saul Ewing LLP, and Allied Minds.

Tisch Library

Tisch Library, which is the primary Tufts library providing research and instruction services to AS&E students and faculty, advanced its programs in support of the SOE. During the academic school year, the engineering librarian, Karen Vagts, and her colleagues conducted 44 workshops and presentations and more than 200 individual or small group consultations (up 30 percent from the previous academic year) to support the research of SOE undergraduates and graduates. Special initiatives included workshops for students in the Summer Scholars and Bridge to Engineering Success at Tufts (BEST) programs and support for an online senior handbook produced by ECE students. To accommodate the growth in demand for research consultations in all disciplines, the library opened a new research consultation space that enables librarians to provide hands-on research support for individuals and small groups. During the summer of 2014, the library produced a lobby exhibit titled “SOE Research in the 21st Century,” which highlights the school’s impressive growth in publications and citations and features research objects donated by faculty; and housed an experimental Maker Space, which featured equipment for making 3-D objects and digital crafts and workshops taught by Tufts students.
FACULTY RECRUITMENT

Over the past several years, the school has made substantial strides in increasing faculty critical mass and diversity. In AY13–14, the size of the tenure track and tenured faculty was 78—including 18 women and 16 ethnic minorities. This year, we recruited five tenure-track faculty members, each of whom will bolster our research and teaching programs in strategic areas. Three will join us in the 2014–15 academic year. Associate Professor Emmanuel (Manolis) Tzanakakis (Ph.D., University of Minnesota), who arrived in June, joins ChBE from his position at SUNY Buffalo. Professor Tzanakakis’s research focuses on stem cells, developing mathematical and computational models of genetic networks and cell differentiation. In September, CS will welcome Assistant Professor Fahad Dogar (Ph.D., Carnegie Mellon University) from his postdoctoral position at Microsoft Research. Professor Dogar’s research interests span the broad areas of networking, distributed systems, and mobile computing. Daniel Kuchma (Ph.D., University of Toronto) will join CEE this fall as a full professor from his position at the University of Illinois at Urbana–Champaign, where he has been recognized as an outstanding instructor. His research interests include the design/behavior of reinforced and pre-stressed concrete structures.

We also strengthened our non-tenure-track faculty with a number of new appointments. This spring, the Trustees’ Academic Affairs Committee approved our petition to eliminate the eight-year limit on Professor of the Practice (POP) appointments. We have used the POP position over the past 10 years to build a talented core faculty in TGI and to attract stellar engineering practitioners to our departmental faculty. This change will allow us to retain this talent that invigorates teaching and learning with real-life knowledge and experience. In January, Michael E. Wiklund, E79, EG84 (MSME), president of Wiklund R&D, was appointed POP, building on his 25-year affiliation with the Tufts Human Factors Engineering Program, and Chris Gregg.
(Ph.D., University of Virginia) joined CS as a lecturer. Gregg’s research interests include dynamic scheduling for heterogeneous computers and the pedagogy of parallel programming instruction. In September, we will welcome Mark Ranalli (BSEE, Stanford University, M.B.A., Tuck School of Business, Dartmouth College) as the new associate dean and executive director of TGI. Ranalli, who will also hold the position of POP, joins us from his position as managing director of RR Donnelley’s Digital Solutions Group, where he was responsible for the company’s digital business strategy. His 24 years of experience as a business executive and technology entrepreneur include founding and serving as CEO of IT sector local start-ups BasesSix, Inc. and Helium, Inc. Senior Lecturer Inge Milde, A95, (M.B.A., Babson College) has been named interim director of the Entrepreneurial Leadership Studies Program.

This year, the SOE also benefited from a major university initiative when it garnered one of two Bridge Professorships. The Bridge Professorship in Cognitive Science will link the departments of philosophy and psychology (A&S) with the computer science department (SOE).

**ENGINEERING FACULTY SIZE AND COMPOSITION**
ADVANCEMENT AND OUTREACH

Development

We are grateful for the many thoughtful gifts that contributed to a standout year for fundraising. With the help of Cynthia D. LuBien and the SOE Advancement team, alumni, friends, and other donors contributed $7.1 million for endowment, capital, and current use, an increase of 58 percent over FY13. More than 2,900 alumni and friends made gifts to the Tufts Fund for Engineering totaling more than $1.4 million. New gifts and pledges added $2.9 million for endowed student financial aid. Of special note, more than $500,000 was received in honor of James A. Stern, E72, H14, A07P, as he concluded his service as chair of the Tufts Board of Trustees. These funds will be added to the Stern Family Endowed Scholarship, established in 2000 and now valued at more than $3.5 million. Among the generous supporters were Placido Arango, A81P, A84P; William S. Cummings, A58, H06, J97P, and Joyce Cummings, J97P, M97P; Peter R. Dolan, A78, A08P, and Katherine L. Dolan, A08P; Issam M. Fares, H00, A92P, A06P, Salma Hala Fares, A92P, A06P, and Fares I. Fares, A92; Laurie A. Gabriel, J76; Steven M. Galbraith, A85; Nathan Gantcher, A62, H04, and Alice Gantcher; Debra Smith Knez, J82, A09P; Jack A. Krol, A58, AG59; Ellen J. Kullman, E78, A12P, and Michael E. Kullman, A12P; Jeffrey M. Moslow, A86, A16P, and Linda B. Moslow, A16P; Joseph E. Neubauer, E63, J90P, and Jeanette Neubauer, J90P; Pierre M. Omidyar, A88, H11, and Pamela K. Omidyar, J89, H11; Daniel F. Pritzker, A81, A12P, A14P, and Karen M. Pritzker, A12P, A14P; Andrew Safran, A76, F77, A09P, and Linda Safran, A09P; and James J. Wong, A86, A16P, and Priscilla Johnson Wong, A87, A16P.

We also would like to thank the members of our engineering community who established new scholarships, made new gifts or payments to their existing scholarships, or made significant expendable
gifts to financial aid, including Fahd A. Alireza, E80; Gregory H. Altman, A97, EG02; Kenneth L. Bloom, E85, A14P, and Debra L. Bloom, J85; Daniel V. Byrne, E76; the estate of Professor Robert K. Devejian, E44; Jeannie H. Diefenderfer, E84; Frederick J. Emmett, Jr., E66; Henry L. Fischer, E52; Andrew J. Frommer, E79; Maria Ferrelli Giatrelis, E89; Monte R. Haymon, E59, and Jane E. Haymon, J60; Lonnia G. Horn, J67; Stephen B. Jaffe, E64, A97P, and Wilhelmina Jaffe, A97P; Steven E. Karol, A76, Michelle Karol, A04P, A13P, Chelsea L. Karol, A13, and Julia D. Karol, A04; Jon A. Levy, E83; Michael C. Loulakis, E76; Allen B. Potvin, E65; Ankur A. Sahu, E91; James A. Stern, E72, H14, A07P; James J. Tiampo, A83, E83 and Kristy F. Tiampo, E83; Neil W. Townsend, E87, and Elizabeth S. Townsend, A90; Peter J. Wetzel, E61; and Gregory A. White, E78.

Carolyn, E57, and James Birmingham made a significant pledge in support of the Center for STEM Diversity. This gift will fund critical staffing for the center’s BEST and Promoting Retention in Science and Engineering (PRISE) programs that support first-generation college students. An alumna engineer from the Class of 1968 and her husband are providing major support to the CEEO, in part to provide challenge funds to grow the donor base among young alumni, parents, and friends. A new fellowship for incoming graduate students in 2015 has been made possible through the generosity of John A., E93, and his widow Dorothy M. Adams.

Corporate and foundation achievement for the SOE for FY14 totaled $672,399. This year, senior leaders from the Raytheon Company met with Tufts President Anthony Monaco and leadership of the SOE and the Fletcher School. Raytheon, a company founded by Tufts engineering alumni, established the Charles Francis Adams/Raytheon Dean’s Chair in 1997 at the Fletcher School of Law and Diplomacy, in honor of its former chairman. In support of our human-technology interface research area, Steinway Musical Instruments has been providing funding for the music engineering minor and capstone course activities. In late June, we received word that the Richard H. Lufkin Memorial Fund, Bank of America, N.A., Trustee, will make a three-year award of $300,000 to Professor Robert White (ME) to support undergraduate education in nanotechnology and smart materials.
Alumni Outreach

Under the leadership of Jonathan Kaplan, A96 (Alumni Relations), our alumni outreach program continued to bring events, cutting-edge research, and connections to alumni. We started off in September, with a reception in Washington, D.C., that featured remarks by Dean Linda Abriola as well as a presentation from Assistant Professor Daniele Lantagne (CEE) on her research on the cholera outbreak in Haiti. Also in September, Robert, E69, and Jane Stricker hosted a dinner with Provost David Harris at their home in Greenwich, Connecticut. On the West Coast, four winners from last year’s Tufts $100K Business Plan Competition pitched their early stage ventures to partners of venture capital firms, CEOs, and senior VPs in Palo Alto and San Francisco. This event was made possible by alumni sponsors led by Louis G. Pelosi, E85, and Susan Pelosi, J86.

In October, a crowd of 150 attendees heard Lyon & Bendheim Alumni Lecture Series speaker Jonathan A. Greenblatt, A92, discuss social innovation and active citizenship from the perspective of the White House. In February, we welcomed Scott Urdang, A71, founder of CenterSquare Capital Management, Inc., for the spring Lyon & Bendheim Lecture. Other on-campus events included the second Stephen and Geraldine Ricci Interdisciplinary Prize Lecture, established by Board of Advisors member Stephen J. Ricci, E67, where members of the prize-winning team, advised by Professor of the Practice Ron Lasser (ECE), Mical Nobel, E13, and Hassan Oukacha, E13, and co-advisor Dr. Mark Latina, A76, spoke about their project to improve an ophthalmological device for glaucoma patient diagnosis. The Department of Chemical and Biological Engineering hosted the 2014 Jeanne and Martin Sussman Endowed Lecture in April. Dr. Alice P. Gast, president of Lehigh University, presented a lecture titled, “Why Are Complex Fluids So Simple and So Interesting?” Also in April, our ninth annual Engineering Career Networking night, co-sponsored by Associate Director Robin Kahan, A80, and Tufts Career Center, highlighted how alumni can mentor and support Tufts students.
Engineering Career Services

Tufts Career Center advisors provided more than 700 individual consultations for engineering and CS students and 109 for alumni. We saw an uptick in the number of students who had interviews on campus: 194, a 23 percent increase over 2013. We also dramatically expanded opportunities for face-to-face meetings with employers at the Sci-Tech Fair and through new consortia career events. The Sci-Tech Fair this year drew 97 employers, an 80 percent increase over 2013, and students responded enthusiastically; their participation jumped by 58 percent. Other engineering recruiting events included consortium interview day events in New York City and Boston, a Boutique Engineering Event for smaller engineering companies co-sponsored by Harvard, BU, MIT, and Olin, and a Biotech Virtual Fair with Brandeis, Dartmouth, George Washington University, NYU, and Washington University. Graduating seniors reported job offers from top companies, including Amazon, Anheuser Busch, Goldman Sachs, Epic, Microsoft, Procter & Gamble, Raytheon, Sensata Technologies, Skanska, TripAdvisor, and many start-ups.

Public Relations

Under the leadership of Communications Director Julia C. Keller and in conjunction with the University Relations office, the school has continued to garner positive attention. The SOE was featured prominently in the news media this year with 10 unique press releases and more than 1,300 news impressions worldwide. Our bioengineering research in silk-based technologies was featured by The Guardian, Financial Times, Wired, New Scientist, Popular Science, and the Wall Street Journal. Human-robot interaction research in moral decision-making was featured in New Scientist, the Boston Globe, Wired, and The Atlantic. The Globe, BBC News, Times of London, Telegraph, New Scientist, and the Wall Street Journal also featured our research on the human/technology interface. Our research in engineering sustainability was featured in Chemical & Engineering News and highlighted on WGBH, NPR, and CNBC. NPR, Fast Company, Boston Business Journal, BostInno, and other local media outlets also covered our business plan competitions.
DIVERSITY

This spring, we were delighted to watch the first cohort of BEST students graduate. All eight earned engineering B.S. degrees—a 100 percent retention rate—and several graduated with honors. We celebrated this true measure of “engineering success” at an inaugural BEST Senior Banquet in May. All but one (who is attending graduate school) secured jobs in industry. This summer we welcomed 13 new students thanks to a generous gift from Peter Kamin, A84, which supports program costs through 2017. In related progress, a gift from Carolyn Birmingham, E57, and James Birmingham allows us to expand support staff at the Center for STEM Diversity, led by Darryl Williams, associate dean for recruitment, retention, and community engagement. We hired a new program administrator, Kristin Finch (Ph.D., University of Illinois Urbana–Champaign). Dr. Finch came to Tufts from a postdoctoral fellowship at St. Jude Children’s Research Hospital in Memphis, where she researched small molecule inhibitors for the treatment of retinoblastoma.
Fiscal year 2014 was busy and productive for facilities planning and construction. Renovations to Halligan Hall were the school’s most complex and ambitious project to date; the project was completed on time and under budget under the leadership of Executive Associate Dean Scott G. Sahagian, with assistance from the ECE and CS departmental staff. In other efforts, Professors David Kaplan and Fiorenzo Omenetto’s Silk Proof of Principle Lab has been relocated to the fourth floor of 200 Boston Avenue, and we completed two lab renovations for BME and ChBE faculty at 4 Colby Street. We also conducted a complete engineering study of the Science and Technology Center at 4 Colby Street. The study will help us plan for the use of the space vacated by the Department of Physics when it moves to the Collaborative Learning and Innovation Complex (CLIC) at 574 Boston Avenue, another building for which we broke ground this year. Joint with AS&E, we are also focused on finalizing plans for a new 90,000-square-foot Science and Engineering Complex that will link Anderson and Robinson Halls. As the SOE evolves and matures its physical space, we benefit from the expertise of Lois Stanley, director of campus planning. Our 2012 Master Space Plan, outlining both current and future needs, continues to be a guiding principle for all strategic investments in growth.

Other joint AS&E projects completed this year include the redesign and refurbishment of Cohen Auditorium, one of the largest spaces on campus for student and faculty engagement. The space had not been updated in more than 20 years, and the new design ensures handicapped accessibility, better teaching platforms for large classes, and improved quality of seating. Tisch Library also underwent a major facility review to identify what it needs to provide to the community in the future. Plans for adapting library space to provide a hub for activities such as digital design to small and large group work space have been developed as a guide for future renovations.
THANKS TO OUR SUPPORTERS

We are grateful to all of the alumni, friends, and organizations who have supported the School of Engineering. By all quantifiable metrics, the SOE is in a better position today than at any time in its history. Strategic investments in faculty, staff, and infrastructure are now bearing fruit, and the quality of its students and faculty has never been higher. Through your support, you ensure that the school’s tradition of preparing outstanding engineers continues, critical to the solution of complex problems facing society. You nurture our educational and research target areas in human health, sustainability, and the human-technology interface. You foster the creation, translation, and transfer of ideas and innovations and strengthen our entrepreneurial ecosystem at Tufts.

Dean’s Inner Circle

HONORING LEADERS IN GIVING.
SUPPORTING THE ENGINEERING LEADERS OF TOMORROW.

In 2007, Dean Linda Abriola instituted the Engineering Dean’s Inner Circle to recognize and celebrate the outstanding contributions of our most dedicated supporters. The Inner Circle honors those alumni who give $100 times the number of years since their graduation. It also recognizes the many generous friends and parents who donate $1,000 or more.

Outside the dean’s office in Anderson Hall, a recognition wall proudly displays the names of our Dean’s Inner Circle. The dean commissions a unique coin each year as a keepsake for members. This year, 168 members make up the Dean’s Inner Circle. They contributed more than $1 million during fiscal year 2014.

It’s critical that we recognize the many dedicated alumni and friends who consistently support the School of Engineering, growing with us as we take the school to the next level. The support of our Dean’s Inner Circle helps us sustain the momentum we have gained in recent years with excellent new faculty members and exciting new interdisciplinary research. Not only does this program highlight the significance of giving, but it’s important to me, as dean, to celebrate the individuals who truly are our inner circle of friends.

—Dean Linda M. Abriola
Dean’s Inner Circle

James A. Stern, E72, H14, A07P, and Jane Y. Stern, A07P
Fahd A. Alireza, E80
Kimberly A. Hartman, J85, and Alan P. Hartman
Jordan Birger, B.S., E43
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Ward S. Caswell, E88, and Andrea C. Moskal, J88
Colin H. Cooper, E83
MaryAlice L. Cowan, M.D., E16P, and William S. Cowan, E16P

A full list of our Packard Society and Dean’s Inner Circle donors can be found outside the dean’s office in Anderson Hall.

A list of endowed funds and Charles Tufts Society members can also be found inside the Burden Lounge in Anderson Hall.
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Lisa Gelman-Koessler, E97
Susanne D. Taylor, E14P, and Neill Taylor, E14P
John J. Fisher, E98
Linda M. Abriola, Ph.D.
Ralan L. Hill, E00
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Jessica W. Lu
Alexandria W. Owen, EG13
Michael S. Van Saun, E13
Jesse B. Weeks, E12
Chensheng Zhou, EG13, Samuel I. MacNaughton, Ph.D., E08, EG13, EG14
Corey C. Diamant, E14
Daniel S. Hurwit, A09
It was Tufts love at first sight for Ankur Sahu, E91. “At International Orientation, right at the beginning, I met the people who are still my closest friends,” he says. Although he had intended to transfer to MIT, Sahu never left Medford. “I was studying world-class engineering in a very international and liberal arts environment,” he says. He majored in electrical engineering, with a focus on semiconductors, materials that are the core components of all electronics products, and took Japanese.

The lucky choice of language served him well after graduation when Sahu joined a management training program at Panasonic in Japan, where he also met his wife, Mari. After attending Harvard Business School, Sahu was recruited by Goldman Sachs to invest in and advise emerging high-technology companies in San Francisco and later to start a private equity investment business for Goldman in Tokyo. He is now the co-head of private equity in the Asia-Pacific region for the firm and is based in Mumbai, India.

Tufts was the start. “Tufts has had such a strong impact on my life, more so than I ever realized while I was an undergrad,” he says. That’s why Sahu dedicates himself to helping talented young students get ahead. In partnership with a former Goldman Sachs colleague, he is currently involved with a project that aims to provide excellent high school educations for gifted girls in India, with the goal of helping them gain acceptance to the world’s top universities. But he knows firsthand that admission into such a university is only half the battle.

“When I think of my daughter, Emma, I think of her potential and the potential of all of the other young girls out there who don’t have the opportunities she has, or I had,” he says. “I wouldn’t have been able to go to Tufts without help.”

The financial aid package Sahu received from Tufts allowed him to put most of his time toward bettering his education; he hopes his gift will help tomorrow’s promising students succeed. With his most recent gift of $375,000, matched dollar for dollar by the Financial Aid Initiative, the Ankur and Mari Sahu Endowed Scholarship Fund has reached $1.2 million. The scholarship will fund the entire Tufts experience, from tuition to room and board, for one deserving student every year.
Gifts to Establish New Funds*

Richard A. Abrams, E80, to establish the Richard Abrams Internship Fund
Henry L. Fischer, E52, and Madeline E. Fischer to the Henry L. and Madeline E. Fischer Centennial Class Scholarship
Andrew J. Frommer, E79, to establish the Frommer Term Scholarship
Richard Ferrelli, A85, and Maria Ferrelli Giatrelis, E89, to establish the Riccardo and Dora Ferrelli Memorial Endowed Scholarship Fund
Kimberly A. Hartman, J85, to establish the Michael A. Yaffa, A68, Prize Fund
Lonnia G. Horn, J67, and Charles Horn to establish the Philip J. Gomez and Lonnia Gomez Horn Endowed Scholarship Fund

Stephen S. Jaffe, E64, A97P, and Wilhelmina Jaffe, A97P, to establish the Jaffe Endowed Scholarship Fund
Michelle M. Karol, A04P, A13P, Steven E. Karol, A76, A04P, A13P, Chelsea L. Karol, A13, and Julia D. Karol, A04, to establish the Karol Family Endowed Scholarship Fund
Ellen J. Kullman, E78, A12P, and Michael E. Kullman, A12P, to establish the Kullman Term Scholarship
James A. Stern, E72, H14, A07P, and Jane Y. Stern, A07P to establish the Stern Term Scholarship
Neil W. Townsend, E87, and Elizabeth Anne San Antonio Townsend, J90, to establish the Neil W. and Elizabeth S. Townsend Scholarship
Peter J. Wetzel, E61, and Martha Wetzel to establish the Peter and Martha Wetzel Endowed Scholarship Fund

New Estate or Planned Gifts*

Ellen J. Kullman, E78, A12P, for Tufts University
Real Provencher, E75, EG75, for the Real Provencher, E75, Endowed Scholarship Fund at the School of Engineering
Robert Stricker, E69, and Jane Stricker for Tufts University
Estate of Barbara L. Bacheler, J40, widow of Albert T. Bacheler, E41, for the School of Engineering

Estate of Robert K. Devejian, E44, for the Devejian Family Scholarship at the School of Engineering
Estate of Ruth S. Ogilvie, widow of Frank L. Ogilvie Jr., E48, for the School of Engineering

*Gifts of $10,000 or more in the fiscal year; includes university-wide annual giving
Gifts and Payments to Existing Funds*

Fahd A. Alireza, E80, to the Fund for the School of Engineering and Engineering Financial Aid

Gregory H. Altman, Ph.D., A97, EG02, and Rebecca J. Gasior to the Altman Family Endowed Scholarship Fund

Placido Arango, A81P, A84P, to the Stern Family Endowed Scholarship Fund

Charles F. Auster, A73, to the Entrepreneurial Leadership Program at Tufts University

Ivan X. Baquerizo, E89, to the Fund for the School of Engineering

Jordan Birger, B.S., E43, to the Dean of Engineering

Carolyn Birmingham, E57, and James Birmingham to support the Center for STEM Diversity

Kenneth L. Bloom E85, A14P, and Debra L. Bloom, J85, A14P, to the Kenneth L. and Debra L. Bloom Endowed Scholarship Fund

Elizabeth V. Brannan, J.D., J69, and Fredric S. Berger, A69, for Engineers Without Borders and the Institute for Global Leadership

Edward H. Budd, A55, J80P, J86P, and Mary H. Budd, J57, J80P, J86P, to the Stern Family Endowed Scholarship Fund

Linda P. Burstein, J77, A05P, A08P, and James S. Burstein, A76, A05P, A08P, to the Maxwell Burstein Endowed Internship Fund

Daniel V. Byrne, P.E., E76, to the Byrne Endowed Scholarship and the Byrne Innovation Fund

Robert B. Coutts, E72, and Ingrid C. Coutts, J74, to the Fund for the School of Engineering


Jonathan G. Curtis, E69, EG72, AG05P, to the Fund for the School of Engineering, the Lawrence S. Bacow and Adele Fleet Bacow Sailing Pavilion, and the Zeta Psi Class of 1969 Scholarship in Memory of Paul Montle

Jeannie H. Diefenderfer, E84, to the Jeannie H. Diefenderfer Endowed Scholarship Fund

Peter R. Dolan, A78, A08P, and Katherine L. Dolan, A08P, to the Stern Family Endowed Scholarship Fund

Abraham Dranetz, E44, J84P, and Marianna Dranetz, J84P, to the Abraham and Marianna Dranetz Endowed Scholarship Fund and to the Fund for the School of Engineering

Erica L. Drazen, E68, and Jeffrey M. Drazen, A68, to the Fund for the School of Engineering

Frederick J. Emmett Jr., P.E., E66, and Marcia L. Emmett to the Frederick J. Emmett Scholarship Fund for the College of Engineering

Gifts and Payments to Existing Funds* (continued)

James B. Flaws, E71, and Marcia D. Weber, J71, to the Fund for the Schools of Arts and Sciences and Engineering

John H. Foster, E52, E82P, to the WSSS Program

Laurie A. Gabriel, J76, to the Stern Family Endowed Scholarship Fund

Steven M. Galbraith, A85, to the Stern Family Endowed Scholarship Fund

Nathan Gantcher A62, H04, and Alice Gantcher to the Stern Family Endowed Scholarship Fund

Craig J. Goldberg, E76, to the Fund for the School of Engineering

Robert J. Haber, E79, EG80, to the Fund for the School of Engineering and to the Robert and Marcy Haber Endowed Professorship in Energy Sustainability

Kimberly A. Hartman, J85, to the Entrepreneurial Leadership Program at Tufts University

Monte R. Haymon, E59, J83P, J85P, and Jane E. Haymon, J60, J83P, J85P, to the Monte and Jane Haymon Family Endowed Scholarship Fund and to the Tufts Hillel Annual Fund

Lance E. Johnson, E69, J95P, and Susan Johnson, J95P, to the Fund for the School of Engineering

Peter H. Kamin, A84, A16P, to Bridge to Engineering Success at Tufts


Mark P. Kesslen, E86, and Phyllis R. Perskie-Kesslen, J86, to the Entrepreneurial Leadership Program at Tufts University

Debra Smith Knez, J82, A09P, to the Stern Family Endowed Scholarship Fund

Steven R. Koltai, A76, F78, E12P, to the Entrepreneurial Leadership Program at Tufts University, to the Fletcher Fund, and to the Ringer-Breed Endowed Scholarship

Jack A. Krol, A58, AG59, to the Stern Family Endowed Scholarship Fund

Ellen J. Kullman, E78, A12P, and Michael E. Kullman, A12P, to the Stern Family Endowed Scholarship Fund and to the Fund for the School of Engineering

Richard J. Kulpinski, E59, to the Fund for the School of Engineering

Jon A. Levy, E83, to the Fund for the School of Engineering and to the Jon A. Levy Endowed Scholarship Fund

Robin S. Liss, A06, to the Entrepreneurial Leadership Program at Tufts University

Yih-An Liu, EG70, to the Department of Chemical and Biological Engineering


Elizabeth A. Lyman to the Fund for the School of Engineering
George Mavridis, E61, to the Fund for the School of Engineering and to the School of Dental Medicine

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I took this absolutely awesome class called Simple Robotics where we literally learned to make robots. Our final project was a robot that could paint and create art; nothing museum-quality, but very cool. That same semester I also took a child development class where we developed a curriculum to bring robotics to elementary school students at PS185 in Harlem and spent spring break teaching. The whole program was robotics-based, giving the students blocks, a motor, and a sensor to build a miniature windmill. The payoff: getting past the theory and being hands-on and working ridiculously hard to pull everything off in a week.
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After a heart attack, part of your heart dies. What I’ve been researching are extra-cellular matrices in which heart cells can grow well, with the hope that eventually those cells can be used to make a patch of heart tissue that repairs the heart after an attack. The human body fascinates me, so I was ecstatic to get to work in the lab with Dr. Lauren Black every semester and study all this in the School of Engineering—especially alongside a great group of women. Some of us went to an engineering conference in Texas together last year and that really solidified the tight-knit Tufts spirit.
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When Stacey Morse, E77, lived in Hong Kong, she was struck by the reputation Tufts has earned there. Despite being 8,000 miles away, the university attracts many applicants from the densely populated Asian city.

The positive reputation Tufts enjoys is related to the strong local alumni community, which Morse got to know as leader of the Tufts Alumni Admissions Program in Hong Kong from 2005 to 2012. “Engaged alumni become better ambassadors for the school, wherever they live,” she says.

As a member of the Board of Advisors of both the School of Engineering and the Center for Engineering Education and Outreach, Morse has learned that lifelong alumni engagement is more likely to occur when graduates become reengaged within five years of leaving campus. This propelled her to offer a $75,000 matching gift, to be split evenly over five years, to encourage giving by young alumni. The March to the Top challenge she helped to fund was held during the month of March and included events in Boston, New York, and Washington, D.C., by the Young Friends of Tufts Advancement.

“Sometimes young alumni think, ‘I can’t give enough to matter,’” says Morse. “With a matching program, if they give $20, they’re actually giving $40. I hope it will encourage them to make a gift.” The March to the Top challenge had a goal of 300 young alumni making their first gift of the fiscal year during the month of March…and nearly 400 responded to the call.

Morse herself was unable to give much as a recent graduate. But she offered what she could and was able to contribute more over the years. Morse says her primary goal is reconnecting more alumni to Tufts and their fellow graduates. But she recognizes the need for alumni to give back. “Tufts has become a more remarkable place and it’s on a great trajectory,” she says, “but in order to keep going, it’s important to broaden the university’s base of support.”
Elementary school students from the Acera School attempt to build a basic weight-bearing structure during their field trip to Tufts School of Engineering.