ORIE has a key role in CornellNYC Tech

Cornell won a worldwide competition to open an applied science and technology campus on Roosevelt Island in New York City. ORIE intends to be part of the campus from its very beginning.

CornellNYC Tech will open this fall, in collaboration with the Technion, in space provided by Google while the new campus is built.

The winning proposal incorporated academic programs that take a problem-driven approach, strongly resembling the ORIE’s current Master of Engineering (M.Eng.). Through the graduate Field of Operations Research (OR), ORIE plans to offer an M.Eng. degree at CornellNYC Tech, and is already recruiting senior faculty to serve there. The Ph.D. program in OR will span the two campuses, with doctoral students pursuing research on the campus of their Ph.D. chair.

The new campus will emphasize technology commercialization and entrepreneurship. It is organized around ‘hubs’, initially comprising Connective Media, Healthier Life and the Built Environment. These hubs will draw on multiple disciplines, including OR, pulling research innovations into the service of applied problems. Faculty will work on research problems arising in the hubs, but will be members of existing departments, such as ORIE.

The winning proposal explicitly referred to the current M.Eng. program as a model for the new campus. ORIE’s Cornell Financial Engineering Manhattan (CFEM) was held up as one example of a successful Cornell operation in New York City.

Operations Research is one of five Cornell fields hoping to offer Masters level degree programs at CornellNYC Tech starting in 2013. After receiving overwhelming support from the OR faculty, a formal proposal for the degree has been approved on campus and submitted to New York State for approval.

Like the Ithaca-based M.Eng., ORIE’s one-year CornellNYC Tech M.Eng. degree will be project-based, with an entrepreneurial and industrial focus. “The establishment of the NYC Tech campus enables both geographical and programmatic expansion of the existing ORIE M.Eng. into application areas that are specifically aligned with the mission of the new campus,” according to M.Eng. Director Kathryn Caggiano. “The ORIE M.Eng. program is no stranger to innovation and change. We are excited to be one of the first degree programs offered at NYC Tech and are particularly enthusiastic about the
opportunities for cross disciplinary engagement this will present to our students,” she said.

Pending approvals, the new ORIE program may start as early as 2013. Although it will be closely patterned on the current Ithaca program, it will focus on concentrations most relevant to the technology sector and to the new campus. Appealing to an applicant pool with a different professional focus, the CornellNYC Tech M.Eng. is not expected to substantially impact total Ithaca enrollment, according to Caggiano.

Once the M.Eng. program is underway, a two-year Master of Science program - with more explicit connection with the hubs and more of a research focus - is expected to be instituted jointly with the Technion, according to ORIE’s David Shmoys, co-chair of Cornell’s Academic Planning Committee for CornellNYC Tech. The OR Ph.D. program will continue to have most of its coursework located on the Ithaca campus, but faculty on both campuses will supervise doctoral students; students who join the research groups of NYC-based faculty will transition to the NYC campus as their work balance shifts for courses towards research.

With respect to program specifics, much depends on the interests and backgrounds of the faculty currently sought for the new campus, according to Shmoys. He reports considerable interest by senior professionals in the CornellNYC Tech position openings that have been announced.

Several working groups report to the Academic Program Committee, including one for each of the three hubs. ORIE’s Shane Henderson heads a working group that is currently developing a two-year MS degree, to be jointly offered with the Technion, in the Healthier Life hub.

“As researchers and teachers of a broadly applicable set of methodological tools, ORIE is well-positioned to contribute to the success of what New York Mayor Michael Bloomberg calls a ‘game-changing’ applied sciences and technology campus,” said Shmoys.

Cornell’s NYC tech campus finds temporary home in Google building

C
ornell's new tech campus has its first brick-and-mortar home: Google Inc. has generously donated space in a building it owns on Eighth Avenue in New York City.

Google CEO Larry Page hosted a May 21 press conference and was joined by New York City Mayor Michael Bloomberg and Cornell President David Skorton to announce Google’s plan to provide initially 22,000 square feet of its Eighth Avenue building to Cornell, starting July 1, free of charge. In its new temporary home, CornellNYC Tech will begin operations this fall with its first crop of students and faculty. Several elected officials also participated in the announcement, including Reps. Jerry Nadler and Carolyn Maloney and Council Member Jessica Lappin.

Skorton thanked Page and Google for their “unparalleled” commitment to CornellNYC Tech and the tech industry in New York. “We’re here today to officially launch our new tech campus and to make it a reality,” Skorton said, adding, “The key is engagement between world-class academics, companies and early stage investors, and co-location is critical to jump-starting the right connections between academic research and industry in a mixing bowl and seeing what happens.”

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Google’s prominent building in the heart of Chelsea, the company’s second-largest location after Mountain View, Calif., will initially host just a handful of existing graduate students and faculty members this fall. CornellNYC Tech’s address will be 111 Eighth Ave. New master’s degree students will begin matriculation in 2013, with the first incoming class estimated to be about 25 students.

By the time Cornell moves out of the Chelsea campus in 2017, the CornellNYC Tech campus is expected to have roughly 250 students and 80 faculty and staff members. Cornell will be rent-free tenants at Google for five years and six months, or until the completion of its Phase I campus on Roosevelt Island -- whichever comes first. Over these five years, Cornell will be able to expand up to 58,000 square feet to accommodate its planned growth. The agreement with Google came about from conversations between CornellNYC Tech’s founding Dean Dan Huttenlocher and Google executives about the need to accelerate the growth of New York’s tech sector.

From left, Google co-founder and CEO Larry Page, Cornell President David Skorton, Technion-Cornell Innovation Institute Director Craig Gotsman and New York City Mayor Michael Bloomberg take questions from the media.
ORIE’s Master of Engineering Program has been recognized for “effective and innovative preparation of students to be good practitioners of operations research, management science, or analytics.”

In the competition for the first UPS George D. Smith prize, a Cornell team travelled to Huntington Beach, Calif., to present ORIE’s case to a panel of judges. The final round of the competition was held at a conference on Business Analytics and Operations Research organized by INFORMS. Cornell was one of three finalists in a highly competitive field.

Mark Eisner and Kathryn Caggiano - past and current M.Eng. program directors - together with recent M.Eng. graduates Akansha Gawade ’11 and Sam Davis ’07, made the case for Cornell. They emphasized the diversity of specializations in the ORIE program, the innovations introduced throughout its 50-year history, and the integrated framework of coursework, professional development and practical capstone projects that characterizes the program.

The winner was University of Michigan’s Tauber Institute for Global Operations. Lehigh University’s Department of Industrial and Systems Engineering was the other finalist.

Under George D. Smith, the second CEO of UPS, “operations research became ingrained in UPS culture,” according to Randy Stashick, Global Vice President of Engineering for the package delivery company.

ORIE PhD Spotlight: Martin Larsson

Not only did Martin Larsson recently finish his Ph.D. in Operations Research in May, but he also got married this month before venturing off to Switzerland to begin work as a Post Doc at École Polytechnique Fédérale de Lausanne.

“I hope to do some teaching, but my main focus will be on research,” Larsson said of his two-year commitment to EPFL’s Swiss Finance Institute that begins September 1.

Larsson said one-third of his time will be devoted to independent research and another third to research for the chair of the SFI. The final third will be devoted to supervision of the institute’s master’s degree students and teaching.

Following his time in Switzerland, Martin will be looking for a tenure-track position, where he can do both research and teach.

For more information on how you can support the ORIE Ph.D. program, please contact Adrian Lewis, ORIE Director, asl55@cornell.edu or Christopher Miller, College of Engineering Alumni Affairs and Development, cm284@cornell.edu.
Five thousand new Cornell graduates and their families filled the crescent at Schoellkopf Field for commencement festivities May 27. For ORIE grads and families, ceremonies at which the ORIE faculty individually congratulated each graduate were highlights of the weekend. ORIE’s new B.S. graduates were celebrated in Sage Chapel following the Schoellkopf commencement. New M.Eng. and Ph.D. graduates were honored in Schwartz Auditorium the previous day.

Undergraduate Ceremony
ORIE celebrated 83 Bachelor of Science degree candidates and recipients. During the ceremony Professor Bland profiled the ORIE class of 2012, asking students to stand as he named the categories of their Cornell accomplishments. Among those who stood were the many entrepreneurs, athletes, musicians, cultural ambassadors, researchers and volunteers in the class, as well as more than 20 who graduated with University Honors.

Award winners included two Merrill Presidential Scholars. Michael Dezube, from Newton, Mass., graduated summa cum laude and will pursue an M.Eng. in Systems Engineering in the fall. João Machado, from Rio de Janeiro, Brazil, majored in both operations research and mathematics. He graduated magna cum laude and is joining Goldman Sachs’ Investment Management Division. Merrill Scholars, chosen from the top one percent of graduating seniors, are distinguished by “their scholastic accomplishments, intellectual drive, energetic leadership abilities, and propensity to contribute to the betterment of society.”

Professor Bland also awarded prizes named for three past ORIE notables. Dezube and Sixing Chen, from Hangzhou China, shared the Byron Saunders Prize. Chen graduated magna cum laude and is en route to a Ph.D. program in biostatistics at Harvard. Jun Yang Chua, from Singapore, won the Allan H. Mogensen prize. He is a Cornell Global Fellow, having spent summers studying and working in Paris and Singapore. Christine Chen, from Westford, Mass., won the Lynn E. Bussey Award. She graduated summa cum laude, after only seven semesters of study, and is now in the ORIE M.Eng. program.

At the conclusion of the ceremony, graduates Amy Paull and Melanie Herman presented alumni gifts to their fathers, Elliott Paull ORIE ’77, from Issaquah, Wash., and Glenn Herman ORIE ’81, from Ivoryton, Conn., recognizing them as alumni who “gave back in a very, very special way” according to Professor Bland.

Master of Engineering
The May 26 graduate student ceremony featured 95 Master of Engineering degree recipients. M.Eng. Director Kathryn Caggiano said this year’s class “really stands out for the extraordinary individuals it contains.” Among them were winners of the Andrew Schultz, Jr. award, named for ORIE’s founder. Samuel Davis, Sanjeev Jagannatha Rao, Thomas Roy, and Karishma Sanghvi were selected for “high academic achievement, exceptional teamwork, willingness to encourage others, and demonstrated potential to become exemplary professional citizens.”

Dr. Caggiano announced the winners of this year’s Silent Hoist and Crane Materials
Newly hooded Ph.D. candidates advance modeling, mathematics and computation in a broad array of problem areas

Jiawei Qian, wrote his thesis on designing fiber optic telecommunications networks to serve thousands of locations. With Professor Williamson, he developed a computationally efficient algorithm that produces approximately optimal solutions to the problem of determining the most profitable configuration. He is currently solving large linear optimization problems at Bank of America in Chicago.

Maurice Yuk Leung Cheung, was advised by Professor Shmoys. Cheung developed algorithms, based on linear programming, that find approximately optimal solutions to more general problems than previously solved well in the classical OR areas of machine scheduling and inventory management. He will work at Gainesville Fla.-based Innovative Scheduling on optimization-based software solutions to planning and scheduling problems.

Gwen Morgan Spencer, also worked with Professor Shmoys. She formulated and developed approximately optimal solutions to models that capture key tradeoffs in containing the spread of wildfires (using small-scale controlled burns) and invasive species (using biological control agents). She used networks to represent the spatial environments in which the wildfires and the invasive species spread and respond to countermeasures in an uncertain manner. Spencer will be a postdoctoral fellow at Dartmouth before joining Smith College in 2014.

Scott Clark was advised by ORIE Professor Frazier as a student in the Center for Applied Mathematics. He developed algorithms that work concurrently on a large number of computer processors, focusing on optimization using such parallel processing in its application to problems in bioinformatics. One such problem is to simultaneously reassemble DNA code fragments from all of the genetic material collected from a community such as the bacteria in a person’s intestinal tract. He will work for Yelp, Inc.

Chao Ding’s research deals with deciding, as sales take place and data are acquired, whether to discontinue a product such as a cell phone that is sold under warranty and is subject to multiple failure types. With Professors Rusmevichientong and Topaloglu, Ding constructed a model that uses automated learning to detect unprofitable products in real time, and came up with superior methods to support the discontinuation decision. He will work for Google.

Kathleen Allison King worked with Professor Muckstadt to develop optimization and simulation models that determine the best design for distributing antibiotics to counter a large-scale anthrax attack. Her results show the value of flexible clinic staffing plans and of centralized command and control in such an emergency. With related models, she showed that the commercial pharmaceutical supply chain should be used to dispense antiviral medication during an influenza pandemic. She will work for Oracle.

Martin Larsson studied the question of whether or not a financial market is efficient, i.e. whether market prices accurately reflect true value. His is the first rigorous mathematical definition of efficiency, requiring that there be some economic equilibrium consistent with observed prices. With this definition he developed a characterization of efficiency that can be tested by statistical means. His advisors were Professors Jarrow and Resnick. He has accepted a postdoctoral fellowship at the École Polytechnique Fédérale in Lausanne, Switzerland.

Juan Li worked with Professor Muckstadt on inventory management strategies applicable to the fulfillment of orders for a large on-line retailer such as Amazon.com. Determining optimal inventory planning and execution strategies for each of tens of millions of products stocked at multiple warehouses is a daunting challenge. She constructed mathematical models and developed and implemented computationally tractable algorithms for finding optimal stock levels. She will join the Xerox Research Center.
Handling Prize. The prize recognizes work advancing materials handling technology in both the traditional and the more modern sense, which includes handling of information.

Third place went to a team, advised by Professor Henderson, that upgraded a scheduling tool for Ornge, an ambulance service that flies patients in Ontario, Canada, and must deal with schedule disruptions due to emergency requests and weather. The original M.Eng.-developed tool had been run every night to decide the next day’s schedule. Now Ornge can use a redesigned interface to recompute the schedule as disruptions occur during the day. The tool has potential to yield an additional 12 percent cost savings.

Two projects tied for first place. One, with ORIE M.Eng. alumnus Jeff Goldman as the team lead for the client, his employer Procter & Gamble, and Professor Topaloglu as advisor, analyzed 30 gigabytes of data covering millions of stores, thousands of sales reps and hundreds of products to figure out which products to sell to each individual store in China so as to maximize sales potential. Early results show single store sales can be increased by more than 10%, implying an annual global opportunity on the order of $100M from using analytics on this “big data.”

The other first place team, with Professor Muckstadt as advisor, has the potential to increase the effective capacity of a three-room cystology operating suite at New York Presbyterian/Weill Cornell Medical College by 10%, worth more than $1M per year per suite and as much as $500M in present value across all suites. After ‘scrubbing up’ to observe processes, interview staff, and gather data for extensive analysis, the team built a computer simulation to test several ideas for improved scheduling. They worked to understand the objectives of stakeholders from patients and medical staff to room cleaners and administrators, with the result that their recommendations, which were based on increased sharing of information, received high acceptance.
Cornell named a top 10 school for financial engineering

Cornell is one of the top 10 “quant” schools -- schools offering degree programs training quantitative analysts for work in financial markets -- according to Advanced Trading magazine.

Cornell’s Master of Engineering with a financial engineering concentration, offered by the School of Operations Research and Information Engineering, was lauded by the magazine for the quality of its academic program and rate of job placement.

It made note of Cornell Financial Engineering Manhattan (CFEM), home to the program’s final semester. Located on Broad Street in lower Manhattan and led by Director Victoria Averbukh, the program lets students “learn directly from Wall Street practitioners and participate in various networking events.”

In addition, the magazine noted, CFEM’s broadcasting system allows for interactive seminars and lectures between the main Ithaca campus and the Manhattan campus.

“Weekly guest lectures by Wall Street professionals enhance the practitioner-taught curriculum, which is updated every year to respond to the changing demands of the financial services industry,” the magazine noted.

Save the date...
Jack Muckstadt retirement ceremonies

After 38 years as a member of the ORIE faculty, Jack Muckstadt, the Acheson-Laibe Professor of Engineering, has announced his retirement.

The School of Operations Research and Information Engineering and the College of Engineering are planning to celebrate Jack’s dedication and leadership in the coming year.

October 26-27, 2012
Ithaca Campus
Ph.D. Reunion and Retirement Dinner
for Professor Muckstadt

April 5, 2013
New York City
Teaching Tribute to Professor Muckstadt
The Technische Universität München (TUM) awards the honor of “TUM Distinguished Affiliated Professor” to “exceptional personalities and researchers of international prominence, who have not only significantly shaped their own discipline, but have also inspired other areas within the scientific community,” according to Wolfgang A. Herrmann, President of the Munich, Germany, university.

Lee Teng Hui Professor of Engineering Sidney Resnick received this designation at an award ceremony in Munich on May 10, part of a two day workshop on “Extremes: Statistical Modeling and Applications,” with speakers from several European universities and other research organizations. Following the ceremony, Resnick spoke on “Two Problems in Heavy Tailed Modeling.”

Resnick is one of 32 researchers chosen by TUM over the years. Among the 13 in his category, Natural Sciences and Mathematics, are three Nobel laureates.

Mark E. Lewis receives Commitment to Diversity Award

At a banquet in early May, Professor Mark E. Lewis was presented with the Zellman Warhaft Commitment to Diversity Award. Lewis, who joined ORIE in 2005 and was promoted to full professor in 2011, teaches and conducts research in stochastic processes, with particular emphasis on the theory of queues - the mathematics of waiting lines.

In 2004 the College of Engineering, under the leadership of then-dean, now Cornell’s provost, Kent Fuchs, set 2015 goals for increasing underrepresented minority faculty members to at least seven percent, and women faculty members to at least 20 percent, according to Ezra magazine. Later, a Strategic Oversight Committee, with Lewis as a member, was established to monitor the hiring process and keep search committees accountable to good recruiting practices that pay attention to diversity.

According to the college’s associate dean for Diversity, Alan Zehnder, Lewis “has been a steadfast voice ensuring that each faculty search makes strong efforts to recruit a diverse pool of applicants.” He has also been a leader of the under-represented minority members of the faculty, “organizing this group socially, for support, and for getting their collective inputs put in front of the college leadership,” Zehnder said.

The Warhaft award is named for the first associate dean for diversity, a professor of mechanical
General Motors considers Peter Jackson a “Most Valuable Colleague”

General Motors Global Research and Development organization has honored ORIE Professor Peter Jackson with a “Most Valuable Colleague Award” for his participation in a project called “Business Process for Optimizing Retail Inventory.”

According to Jackson, the project focused on optimizing retail inventories of vehicles on dealer lots. It dealt with the tradeoff between holding too many vehicles, which is bad for the dealers because of such issues as “lot rot” and warranty costs, versus holding too few vehicles, which can mean that consumers are unable to find what they are looking for.

“There are many stakeholders for systems like this,” according to Jackson, including the sales organization, dealers, consumers and even suppliers and unions (due to the impact of production adjustments). Together with a team of analysts from a broad array of GM organizations, Jackson developed an experiential training simulation that models detailed customer flows and allows people from sales and production to play out different inventory strategies to determine their consequences.

The project was part of a set of activities that has “enabled substantial reduction in GM’s retail inventory, leading to significant reductions in inventory carrying costs for both GM and its dealers,” according to GM R&D’s “Innovation Awards 2010” booklet.

The project’s core team from General Motors’ Operations Research unit received a 2010 Charles L. McCuen Special Achievement Award for their work. The award is named for the successor to Charles Kettering, founder of General Motors Research laboratories. McCuen coordinated the corporation’s engineering policy during the critical World War II era and oversaw the development of the first completely automatic transmission.
Where Are They Now?
Catching up with ORIE Faculty

Mike Todd
- I’m interested in old cars and old motorcycles. Currently, I own three bikes, all over 20 years old, and am a proud member of a group of aging reprobates called the Cayuga Curmudgeons (motto: “Lock up your grandmothers”).
- My wife is retired from Ithaca College, where she was Director of Creative Services. My son is a math teacher near Boston, where his wife is a medical researcher, and we have a delightful 5 year-old granddaughter. I spent a few weeks last fall visiting MIT’s Operations Research Center (and the family).
- Since I moved to phased retirement, we are spending more time at our condo in Manchester, Vt., where we enjoy the mountains, good food, and wine on the deck.

Sid Resnick
- My sabbatical starts this August. I’ll spend nine months of it at Columbia University in New York City.
- My family side of things is good in New York City. My two grandchildren, both boys, live on the west bank of the Hudson River in Hoboken. At 4-years old, the older one has started pre-school and has proven to be very stubborn, so much so that we’ve lovingly deemed his nickname “Psycho T”. The newest addition, at 10-months old, is his proud little brother. My son and his wife are in Brooklyn.
- I read mysteries. I believe my favorite author would have to be Lee Childs. Each of Childs’ novels follows the adventures of a former American Military Policeman, Jack Reacher, who wanders the U.S.
- I enjoy riding my bike and frequently take tours around Ithaca. Although I don’t regularly play soccer or basketball anymore, sometimes I can still be persuaded to come out of retirement for a quick game or two.
- I just picked up a big grant from the U.S. Army that I expect will keep me busy for at least the next 3-5 years.

Peter Jackson
- I used to assign a homework exercise in my Engineering Economics class entitled “Will I Ever Own A Boat?”, a discounted cash flow analysis of college tuitions for my children. All six children are graduated from college and I now own a Bayfield 29-foot cruising sailboat. Nancy and I spend long weekends sailing on Cayuga Lake, anchoring overnight in pretty spots.
- Periodically, I purchase books on drawing and work to improve my sketching skills. I recommend “Drawing on the Right Side of the Brain” by Betty Edwards.
- I do not get to read to my grandchildren as often as I would like. With my iPad, however, and an app called “WavePad” I have recorded one of my favorite childhood books, “We Didn’t Mean to Go to Sea,” by Arthur Ransome. Be sure to read “Swallows and Amazons,” by Arthur Ransome, to your kids first.
For our second bi-annual alumni newsletter, it is my great pleasure to highlight for you another recent batch of significant accomplishments of the School of Operations Research and Information Engineering.

We enjoyed an outstanding hiring year, welcoming three exciting new faculty members to ORIE: Jim Dai, a leading applied probability expert, is joining us this year from Georgia Tech; Pierre Patie, a risk specialist, is arriving from Brussels; Kris Iyer, a recent Stanford graduate in information engineering, will arrive next year. They will join last year’s hire, Andreea Minca, who was recently selected as the College’s Andrew Schultz Faculty Fellow (generously funded by Don and Mibs Follett). Offsetting a steady and challenging stream of retirements, these new faculty represent a dramatic infusion of fresh research and teaching talent.

Our 2012 graduating class of about 80 seniors was a little smaller than typical – next year sees a return to about 100, our usual very substantial chunk of the College’s enrollment. The program remains popular and high-caliber: thirteen of this year’s seniors boasted GPAs above 3.8, including two of the College’s seven Merrill Presidential Scholars.

Our MEng program was among three finalists for this year’s UPS George D. Smith Prize, awarded by INFORMS for strengthening ties between academia and industry. The program continues to lead the College in size of applicant pool and selectivity – selected from 900 applicants, our incoming class will consist of more than seventy students, evenly divided between our three-semester financial engineering program (recently named a “Top Ten Quant School”) and our two-semester non-finance specialties. Despite a challenging economy, placement into rewarding career tracks remains very strong.

Our PhD program enjoys an outstanding reputation - fifth in its national cohort in the 2010 National Research Council ranking. Eight students took part in this year’s Commencement, and nine new students join us this fall. Recent generous alumni support is helping one of ORIE’s top priorities – an expansion in this PhD program, which serves simultaneously as a launching pad for new academic careers, as a vital source of talented teaching assistants, as a pool of critical participants in faculty research, and as a key asset in competing for top new faculty.

A thrilling initiative this year is the School’s engagement in the new CornellNYC Tech campus. Sensing a natural resonance with ORIE expertise, experience and interests, our faculty have thrown themselves vigorously and unanimously behind this project. In particular, Professor David Shmoys is co-chairing the Academic Planning Committee for the new campus. Helping spearhead the University’s initiative, our MEng program is one of five under consideration by NY State for CornellNYC Tech. We are currently advertising ORIE faculty positions for the new campus.

Thanks to everyone who attended this year’s annual ORIE alumni breakfast in June! It was great to have you all back in Rhodes Hall: our faculty enjoyed the celebration immensely.

As always, we love to hear from you. Please keep in touch through the Alumni section of the ORIE website. Feel free to submit an alumni note, catch up with other alumni in the notes section, or find out different ways you can help ORIE by visiting http://www.orie.cornell.edu/alumni/index.cfm.

Until next time,

Adrian Lewis
Director, ORIE

Follow ORIE on Facebook & LinkedIn

- See what’s happening within the department
- Connect with classmates & faculty
- Meet current students (become a mentor!)
We want to hear from you...

If you would like to share information about your current activities, please visit the ORIE alumni page at http://www.orie.cornell.edu/alumni and go to “Submit an Alumni Note”. Feel free to include updated contact information or other items of interest, including:

- Career News
- Personal Highlights/Milestones
- Get Married?; Have a Child?

In addition to publishing the alumni notes online, we’ll add Alumni Notes to future issues of ORIE News. Feel free to add a photo to your note submission.