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PHOTO: JIM WRIGHT
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Reconnect with Alumni
Dear Alumni and Friends of Stevens:

Once again, the school year at Stevens is off to a great start. We have our largest freshman class (598 students) and our largest undergraduate student body (2,150) in the University’s 139-year history. Convocation was extremely well attended. Angie Hankins ’95, a Stevens Board of Trustee member, did a great job of welcoming the new students to the Stevens community as we presented the Class of 2012 with their Stevens banner.

For me, one of the highlights of the new semester is always the Old Guard Luncheon. As we have come to expect, Anita Lang and her staff did a great job of organizing this well attended event, and Stevens Professor Emil Neu ’55, chairman of the Old Guard, did a great job of emceeing the program. I always enjoy the opportunity to greet our members of the Old Guard as they come back each semester for this luncheon. This year, I particularly enjoyed the opportunity to speak with Ralph Golzio, Class of 1932, who will have celebrated his 99th birthday by the time you receive this edition of The Indicator. Ralph is extremely active and to stay sharp, he chooses a new area of study each year. This year Ralph has decided to study astronomy. To pursue his new field of interest, each year he reaches out to Teresa Tridente, the manager of our Campus Store, to get textbooks on the topics he decides to study. This year, Teresa referred him to Professor Ed Whittaker, Hon. M.Eng. ’00, who was kind enough to suggest a text or two for Ralph to purchase and read to continue to pursue his annual course of independent study.

Dean Michael Bruno, Hon. M.Eng. ’01, gave an engaging update on Stevens’ leadership position in the Department of Homeland Security’s Center of Excellence in Port Security and the consortium of universities that are a part of this program. This is a great achievement for the Stevens administrative and academic leadership in its strategic pursuit to expand our university’s research base.

October has also been an extremely busy month on campus. At the beginning of October, we celebrated Homecoming. This event has grown in popularity over the last few years and has become a rallying point for the whole Stevens community. This year, for the first time, the weekend event began with Tech Fest on Thursday evening, and we added the very popular alumni “Meet and Greet” event on Saturday evening through the efforts of Vicky Velasco ’04, our SAA treasurer and chair of our Young Alumni Committee. On Oct. 18, the DeBaun Center for the Performing Arts celebrated its tenth anniversary with a performance of “The Secret Garden” and a reception that honored Grace, Hon. B.E. ’04, and Ken De Baun ’49 for making the center a reality.

I would also like to thank you for your support of StevensConnect. We now have more than 800 alumni who have signed up for this private online community. We invite those of you who have not already done so to join us online at www.stevensconnect.org. Many clubs have been formed already, and employment opportunities are routinely listed on this site.

As I have often said in discussions at our Stevens Alumni Association Executive Committee meetings, Stevens is a vibrant place with many interesting and creative initiatives and activities undertaken by its leadership, faculty, staff and students. If you have not been on campus in a while, I suggest that you visit in the near future. There is a lot happening here, and I think you will want to participate.

All the Best!

Ed Eichhorn ’69
President, Stevens Alumni Association
Dear Colleagues:

This past May, Stevens saw its largest Graduate School graduating class ever—some 950 men and women—receive their advanced degrees from Stevens. The baccalaureate class, meanwhile, graduated some 370 outstanding young men and women, also a record. These graduates are among the most talented men and women in the world today, and we look forward to the great contributions they will make in their chosen fields of engineering, science, technology and business. The commencement ceremonies were made even more memorable this year, as Stevens conferred honorary degrees to New Jersey Governor Jon S. Corzine, Dr. Curtis R. Carlson, president and CEO of SRI International, and Verizon Telecom President Virginia P. Ruesterholz ’83, who is a member of the Stevens Board of Trustees. All honorees provided inspiration and outstanding examples of leadership and accomplishment to the graduates that day, and it was a privilege to honor them.

A new school year has since begun, with Stevens’ largest freshman class ever—598 students—entering the Institute this fall and being welcomed at the traditional Convocation ceremony. It was certainly a day for celebration, as the Class of 2012 received its official welcome and induction into the revered Stevens Honor System (which will celebrate its 100th anniversary this year) and the Institute’s most outstanding students and faculty were honored for excellence in academics, research, teaching and extracurricular activities. But the event also took on a tone of urgency—for the need to discuss ways to combat college-age alcohol abuse and its devastating consequences—as you will see in the Convocation article that appears in this issue.

Research that is vital to our national security has begun at the new Center of Excellence in Port Security at Stevens, the Department of Homeland Security-funded effort the Institute is leading to help protect our nation’s ports, along with impressive partners Massachusetts Institute of Technology, Rutgers University, the University of Miami, the University of Puerto Rico, the U.S. Merchant Marine Academy and Monmouth University. Congressmen, top DHS officials, Coast Guard officials and our partners from across the country traveled to Stevens this summer to formally inaugurate the new Center, known at Stevens as the Center for Secure & Resilient Maritime Commerce (CSR). Now, work on this prestigious multi-year grant begins, as you can learn from an interview with the man leading the Stevens’ effort, Schaefer School of Engineering and Science Dean Michael S. Bruno, Hon. M.Eng. ’01.

As another successful Alumni Weekend is now a memorable event, we were pleased to welcome back this fall our illustrious alumnus who is marking his 25th reunion this year. Greg R. Gianforte ’83, M.S. ’83, is a highly successful entrepreneur and CEO, president and founder of RightNow Technologies, Inc., of Bozeman, Mont. He is also the author of *Bootstrapping Your Business: Start and Grow a Successful Company With Almost No Money* and graciously shared his vast business knowledge with a standing-room-only crowd during a lecture on campus this September. Greg inspired many that evening with his invaluable advice, and we have high confidence that current Stevens students will follow him in their own successful entrepreneurial efforts.

Sincerely,

Harold J. Raveché
President, Stevens Institute of Technology
**Grist From the Mill**

**NSF grant aims to inspire PhDs and high schoolers**

The National Science Foundation has awarded a $3 million grant to Stevens to provide fellowships to doctoral students to conduct research in multiscale engineered systems and improve educational programs in the sciences in New Jersey.

The five-year grant project is designed to prepare the Ph.D. students for careers in teaching, while also supporting efforts to improve science, technology, engineering and mathematics (STEM) education at the high school and community college levels through the New Jersey Alliance for Engineering Education (NJAEE).

“This is a multi-faceted project, which will provide Stevens with a unique and very exciting opportunity,” said Professor Constantin Chassapis, Hon. M.Eng. ’04, director of Stevens’ Mechanical Engineering Department, who is the lead investigator on the research grant.

Over five years, this project will provide fellowships to 10 Stevens doctoral students per year (nine during the first year) who will conduct research in the area of multiscale engineered systems. Working closely with high school teachers, the Ph.D. students will disseminate their research results to several participating high schools within the framework of the NJAEE. The Alliance brings a diverse set of high schools in New Jersey together with faculty, researchers and graduate students from Stevens, and educators at Montclair State University, the University of California, Berkeley, Lawrence Hall of Science, and Bergen Community College. Participating high schools will include those in Jersey City, Bayonne, Hoboken, North Brunswick, Washington Township and Ridgewood.

“This Alliance will have a major impact on how we prepare and train the next generation of technology leaders necessary for the U.S. to maintain its leadership role in emerging areas of technology in a global economy, while strengthening partnerships to better recruit and retain disadvantaged and under-represented minorities in the engineering pipeline,” said Stevens Provost and University Vice President George P. Korfiatis, Hon. M.Eng. ’95.

“It is totally appropriate that Stevens be recognized as a leader in these efforts, as we have implemented innovative science, engineering and mathematics curricula in primary and secondary classrooms with great success for several decades.”

In addition to their doctoral research, the Fellows of the NSF grant will devote 10 hours per week within a high school setting, collaborating closely with engineering professors, education professionals and high school teachers, to design, develop and implement educational modules, based on their research work, that will motivate the next generation of students to pursue careers in STEM fields.

“This project has the potential to enrich secondary science classrooms with exciting, leading-edge research that enables students to apply their science learning to real-world engineering problems,” said Elisabeth McGrath, director of Stevens’ Center for Innovation in Engineering and Science Education.

The research will address a variety of issues related to multiscale engineered systems, one of the major multidisciplinary research areas identified in Stevens’ Strategic Positioning Plan. An additional focus on engineering design, innovation and inventiveness will differentiate this doctoral program from competing offerings at other institutions.

“This program will further enhance the educational and research experience of the participating fellows, helping to attract highly qualified and motivated candidates to our rapidly growing full-time Ph.D. student population in the area of multiscale engineered systems,” said Associate Professor Sven Esche, director of the Mechanical Engineering Graduate Program.

Also involved in the research grant project are Assistant Professor Frank Fisher from the Mechanical Engineering Department; Associate Professor Thomas Lechler from the Wesley J. Howe School of Technology Management; and Research Assistant Professor Rustam Stolkin from the Environmental and Ocean Engineering Department.

The outreach component of this project will benefit an estimated 11,700 high school students and provide considerable professional development opportunities to 130 participating high school teachers.

And through the grant project, a sustainable model for a graduate education certificate program, titled “Teaching and Learning in STEM Disciplines,” as a supplement to traditional doctoral student technical training in engineering, will be developed nationwide.

—The Stevens News Service contributed to this report.
Stevens enjoys top research-revenue ranking from Forbes.com

Fresh off its selection as a major research center for port security, Stevens Institute of Technology has recently reaped another national honor for its research prowess.

In September, Stevens received a top ranking for its profitable research from Forbes.com, with the online magazine ranking Stevens as No. 3 in the country among a list of top patent-revenue-generating universities. Stevens, which earned $4.56 million in research-related income in 2006 and spent out $28 million, saw a 16 percent yield—ranking it higher than much larger research behemoths such as Stanford University and the University of California system.

Stevens' own research has given it much bang for the buck, Forbes.com reported in its Sept. 12, 2008, issue, with only New York University ($157 million in research-related income out of $210 million spent on R&D, a hefty 75 percent return) and Wake Forest University ($146.3 million in research-related income out of $60.5 million spent, for 41 percent return), out Ranking the Institute. (Stanford University, meanwhile, ranked No. 9.)

"Stanford's fertile breeding ground for breakthrough technology may have spawned the likes of Hewlett-Packard and Google, but little Stevens Institute of Technology in Hoboken, N.J., really knows how to get returns on its research and development," according to Forbes.com.

The article discusses Stevens' history of entrepreneurship going back to its founder, Colonel John Paul Stevens, founder of the U.S. Patent and Trademark Office, and explains Technogenesis®, the Stevens' education process through which students and faculty “work through the research and commercialization issues concurrently,” the article states.

Forbes.com cites several Stevens success stories: the Stevens spinoff PlasmaSol, which developed a way to decontaminate buildings after a chemical or biological attack, sold for $17.6 million in 2006; and HydroGlobe, which patented a method for removing lead and arsenic from water, was sold to filtration manufacturer Graver Technologies.

President Hal Raveché predicts that Stevens can generate $50 million in licensing revenue next year, Forbes.com reported—up from $4.5 million in 2006.

"Those (Silicon Valley) companies were started after the students left Stanford," Raveché told the magazine. "Our students start companies here."

Forbes.com formed its Top 15 list based on a 2006 survey of 189 schools by the Association of University Technology Managers, which tracks university-born patents and licensing revenues, the magazine reported.

Here's the list of the Top 15 patent-revenue-generating universities, starting from No. 1: New York University; Wake Forest University; Stevens; Ohio University; Brigham Young University; the University of Rochester; the University of Minnesota; the University of Florida; Stanford University; Northwestern University; Mount Sinai School of Medicine; the University of Massachusetts; the University of Utah; the University of California System; and the University of South Alabama.

—Beth Kissinger

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Stevens Indicator

Stevens research takes the spotlight at Institute’s first-ever Research Day

Stevens research took center stage this past spring, as the Institute devoted an entire day to promoting its major research and entrepreneurial efforts to some potential customers, including the U.S. Navy.

Stevens’ first-ever Research and Entrepreneurship Day on April 30, 2008, saw about 100 people—Stevens researchers, faculty and administrators, alumni and representatives from government and industry—gather on campus to learn about the latest in Stevens research, from national security efforts to advances in medical technology. The day included keynote speeches, presentations by Stevens’ faculty who spoke about the research they do, a poster session featuring the work of both Stevens faculty and students and tours of several research labs on campus.

A number of Stevens faculty gave presentations on their area of research, which fall into three research communities formed in recent years at Stevens: Systems and Enterprise Management and Architecture; Security—Maritime, Cyber, and Information and Communication Networks; and Multi-Scale Engineering, Science and Technology, with an emphasis on nano and micro-scale systems and devices.

Dr. Patricia Gruber, director of Research with the Office of Naval Research and the day’s main keynote speaker, spoke of Stevens’ long record of doing research for the Navy—dating back to World War II.

“Stevens has a long history of helping the Navy and doing Navy relevant research,” she said. “I want to encourage you to bring your good ideas to the Navy. It’s very important to national security.”

A number of faculty members from Stevens’ research clusters spoke about their ongoing research on this day that Stevens plans to make an annual event. The Systems and Enterprise Management and Architecture cluster focuses its research efforts on creating unique knowledge about the functionality of socioeconomic systems. The Security—Maritime, Cyber, and Information and Communication Networks research “cluster” focuses on making breakthroughs in national security technology, such as addressing maritime threats and doing research in various areas of cybersecurity. Finally, the Multi-scale Engineering, Science and Technology research cluster (which emphasizes nano-and micro-scale systems and devices) is rooted in nanoscale science but focuses on real-world problems and needed technologies in the areas of energy, health, electronics, communications, the environment and national security.

Dr. Susanne Wetzol, Hon. M.Eng. ’06, an associate professor of computer science at Stevens, gave a brief presentation on her areas of cybersecurity research, which include cryptography, generic case complexity and cryptanalysis. In her work—for which she has received funding from the National Science Foundation and Sun Microsystems—Wetzol strives to identify areas of vulnerability, ad-hoc networks and vehicular networks, among other areas.

Dr. Frank Fisher, an assistant professor with the Department of Mechanical Engineering, spoke on his Multi-scale Engineering, Science and Technology research community and the areas of research including multi-scale mechanical systems and devices, microchemical systems, and nanotechnology that involve much multi-disciplinary work. One recent exciting project has been the “MEMS Umbrella-Shaped Actuator with Active Structures for Medical Techniques,” a technique to design, fab-
ricate and test a micro-actuator for thrombus retrieval in stroke victims. Stevens won a $300,000, three-year grant from the National Science Foundation for the project.

In her keynote address, held inside DeBaun Auditorium, Dr. Gruber spoke of her work that focuses on looking to the Navy’s future needs for technology and reaching out to universities like Stevens to help the Navy fulfill its “D&I” (Discovery and Invention) mandate.

“It’s you folks that fulfill part of our mission,” she told the room of researchers.

While the Navy is “the most technologically advanced military in the world,” Gruber warned that it could lose its superiority if the U.S. doesn’t carefully nurture science and technology research.

Then, Gruber reached out to the audience of researchers as she highlighted some of the Navy’s specific research needs. She spoke of a “real need for persistent surveillance that operates in many areas”—autonomous, unmanned systems, especially for Iraq and Afghanistan, that do the “dull, dirty, dangerous” jobs. The Navy, she said, also needs technology in undersea surveillance; sensors that can be exposed to the outdoors for long periods of time and adapt to their environment; improved semiconductor, information assurance and anti-tampering technology; corrosion prevention; improved, higher efficiency vehicles; among a long list of needs.

U.S. Secretary of Defense Robert Gates realized the Defense Department needed to invest more money in basic research, Gruber said, and has pushed for more money for this for the next several years.

Gruber then encouraged the researchers to go to the ONR Web site and find information on how to contact ONR program officers, attend ONR conferences and make connections.

She also spoke of her efforts in education and outreach, as she travels the country to encourage undergraduate and graduate students that they can have stimulating and lucrative careers doing research for the Navy. Finding young people interested in entering science and engineering careers can be a challenge.

“It’s a huge problem,” Gruber said. “They’re great users of technology, and they need to realize that it needs to be sustained.”

Dr. George F. Korfiatis, Hon. M.Eng. ’95, the Stevens provost whose office sponsored Research and Entrepreneurship Day, spoke of Stevens’ efforts to urge the State Department of Education to include engineering and innovation in the core curriculum standards from kindergarten through the 12th grade.

“Stevens’ Research and Entrepreneurship Day this past April included more than 90 poster displays by Stevens researchers—students, faculty and staff—inside the Canavan Arena. Here, Jing Ma, left, a Ph.D. student at the Howe School of Technology Management, and Dawna Schultz, a project director with Stevens’ Center for Innovation in Engineering and Science Education, stand in front of posters explaining their areas of research.

“It’s not an easy battle,” he said.

But this event was about the successes of those who have chosen a career in engineering, technology and science, as shown by the more than 90 poster displays inside Canavan Arena that highlighted Stevens research and closed the day. Stevens professors, researchers and students presented research on a wide variety of areas, including: a Hostile Intent Detection System; Remote Robotic Systems; “Rapid creation of autologous skin grafts”; “Reflective Antennas and Em analysis”; “Micro-plasma reforming for Hydrogen Power”; among many others. The day ended with an awards ceremony for best student poster and other research awards.

“We talk about transformational research, research that changes its field and domain,” said Stevens President Hal Raveché—and this is the type of good research that Stevens strives to do.

Research and Entrepreneurship Day also featured a keynote luncheon talk by Timothy Lizura, senior vice president for Business Development, New Jersey Economic Development Authority (NJ EDA).

—Beth Kissinger
The executive director of Stevens’ newly formed National Center of Excellence for Port Security has been named the 2008 Educator of the Year of the New Jersey section of the American Society of Civil Engineers.

Dr. Thomas H. Wakeman, III, a research professor in the Civil, Environmental and Ocean Engineering Department at Stevens, received the award this past spring at the ASCE Annual Awards Dinner in Woodbridge, N.J.

Wakeman is deputy director of Stevens’ Center for Maritime Systems and is responsible for administration of the school’s graduate program in Maritime Systems. After the U.S. Department of Homeland Security awarded Stevens and its partners, including Rutgers and the University of Miami, a multi-year grant of up to $2 million per year to form the National Center of Excellence for Port Security this past spring, Wakeman was named its executive director.

Wakeman’s long list of accomplishments also includes a variety of professional management positions with the U.S. Army Corps of Engineers, the Port Authority of New York and New Jersey and the Coalition Provisional Authority in Iraq. He holds a doctorate of engineering-science in civil and environmental engineering from Columbia University, a master of science in civil engineering with a minor in environmental management from the University of California, Berkeley and Davis campuses, and a master of arts degree in marine biology with a minor in geology from San Francisco State University. He received his bachelor’s in marine biology from California Polytechnic State University, San Luis Obispo.

Founded in 1852, the American Society of Civil Engineers represents more than 140,000 members of the civil engineering profession worldwide and is America’s oldest national engineering society. —Stevens News Service

Dr. Thomas H. Wakeman, III

National fraternity honors Babbio

Three generations of Delts from across the country gathered in New York City this past spring to celebrate the national fraternity’s 150th birthday and to honor an illustrious brother from Stevens’ Rho Chapter.

Lawrence T. Babbio, Jr. ’66, the retired president and vice chairman of Verizon Communications and the Stevens Board of Trustees chairman, received the Delta Tau Delta Alumni Achievement Award this past April during a dinner in his honor at the New York Athletic Club in Manhattan. The event was held to honor both Babbio and the Rho Chapter for their leadership. More than 80 Delt alumni and guests from as far away as the University of Southern California came to honor Babbio, with half of the brothers coming from Stevens’ Rho Chapter.

The event was part of the fraternity’s 150th anniversary celebration taking place in 2008 and an effort by the fraternity to bring the celebration to Delts across the country through regional events. Delta Tau Delta was founded in 1858 at Bethany College in Bethany, W.Va.

Babbio received the national fraternity award that is given “to alumni of the Fraternity, whose achievements in their fields of endeavor have brought honor and prestige to Delta Tau Delta,” according to the award. Babbio retired in 2007 after an illustrious 40-year career in communications, beginning with New Jersey Bell Telephone in 1966.

Rho Chapter alumni from the 1960s turned out strong for the event, but five decades in all were represented, from the 1950s (Robert Fiocco and Robert Walker, both from the Class of ’58, and Leo Collins ’59) to the 2000s. Younger Stevens alumni made a
particularly strong showing.

Most of the evening’s attendees came from the New York, New Jersey, Pennsylvania and Washington, D.C., areas, with Delt alumni from Villanova University, Lehigh University, Lafayette College, Pennsylvania State University, American University and other colleges also represented. The attendees from Stevens’ Rho Chapter were: Robert Fiocco ’58, Robert Walker ’58, Leo Collins ’59, Bruce Boylan ’63, Richard Nicotera ’64, James Agresti ’65, Donald Baxter ’65, Emil Mastik ’65, Larry Babbio ’66, Donald Faul ’66, James Harris ’66, Marty Valerio ’68, Robert Benazzi ’69, Gerald Crispin ’69, Edward Eichhorn ’69, Joseph Garvey ’71, Troy Roberts ’84, David Bonifacic ’86, Peter Brunetti ’91, Kenneth Tichy ’91, Joe Iacoviello ’95, Joseph Perez ’95, Matthew O’Donnell ’96, Joseph Llano ’00, Jason Perez ’00, Jason Tirri ’00, Peter Bakarich, III, ’04, Ryan Sullivan ’04, Matthew Cannon ’05, Erik Reckdenwald ’05, George Couto ’06, Kenneth Henriques ’06 and Robert Leming ’07, and Stevens undergraduates Gianni Galante, Mike Malter, Brett Robison, Trevor Serfass, Derek Straub and Dave Wang.

Babbi joins an impressive class of Delta Tau Delta Alumni Achievement Award winners, from CEOs and Congressmen to judges and bishops. Among the past award winners are Babbi’s fellow alumnus Frederick L. Bissing ’33, M.S. ’36, Hon. D. Eng. ’73, attorney and retired vice chairman, Allied Chemical Corporation; Marlin Fitzwater, press secretary to Presidents Ronald Reagan and George H.W. Bush; and the Honorable Lawrence W. “Bill” Lane, Jr., former U.S. Ambassador to Australia and the Republic of Nauru.

The force behind the event was Don Kress (Lafayette), the past president of the Delt National and a principal speaker that evening. Also speaking was Ken File, the current president of the National, who joined Larry at his table for the evening. Ed Eichhorn ’69 and Bruce Boylan ’63 helped to encourage the Stevens Dels to attend. Ed gave the blessing to start off the speeches. Bruce, as Larry’s big brother, introduced Larry, gave the highlights of his career and added some levity in recalling fraternity life in the ’60s. Larry was joined at the table by his fraternity brothers from that era; there was, indeed, a lot of laughter at the table.

Larry spoke of the role of leadership in one’s career, especially straight-forwardness and honesty in that endeavor.

Dave Wang, the past undergraduate president, presented Larry with an appropriate gift—a bottle of barolo—from the undergrads for his role in the completion of the recent renovation of the Delt house.

Young Delt alumni made a strong showing at the dinner honoring Larry Babbi ’66 and Rho Chapter. From left: Joe Iacoviello ’95, Matt O’Donnell ’96 and Joe Llano ’00.
Back to basics with bootstrapping:
Alumnus says fundamentals rule

Stories of moxie, old-fashioned pluck and business fundamentals resounded for a standing-room-only crowd inside the campus’s Babbio Center auditorium this fall, as a successful Stevens alumnus and entrepreneur offered real-world advice on how to succeed in business without venture capital.

Greg Gianforte ‘83, M.S. ’83, CEO and founder of RightNow Technologies and recipient of the Stevens Honor Award, gave an hour-long talk on “Bootstrapping Your Business: Start and Grow a Successful Company With Almost No Money,” which is the title of his new book.

With much down-to-earth humor, Gianforte offered amusing anecdotes to illustrate his points on what makes an entrepreneurial venture successful—the traditional way.

“There’s Always Another Way” is No. 5 among Gianforte’s Rules the Bootstrappers Live By. Many years ago, when Gianforte was beginning one of the five successful start-ups he has launched, a software company called BrightWorks, he came up with one bright idea of ‘another way.’

He and his partner were sitting on the porch in Tinton Falls, N.J., lamenting that their sales figures were “nowhere,” in part because they did not have a business agreement with Novell Inc., whose clients of computer networking products their business was serving. BrightWorks’ clients did not know who they were, because Novell didn’t know them, and Novell did not even return their calls.

So Gianforte and his partner rented a 48-foot billboard outside Novell’s Ogden, Utah, offices that read, “Don’t Just Network, BrightWork.”

The next day, a top executive at Novell called them.

Long story short, they wrangled a $50,000 distribution agreement with Novell.

Know your market

“Bootstrapping” is all about getting in the shoes of the clients in your market, and making iterative modifications to your product or service in order to meet their needs and land sales—early on in the business development process, said Gianforte, whose current company, RightNow Technologies, is a $60 million customer service software company based in Bozeman, MT. RightNow’s software improves the “customer experience” for many top corporations, automatically helping to answer customer questions and thereby reducing the workload of e-mails and phone calls that the companies must handle in person.

So instead of getting a static idea for a product, and seeking venture capital to support development of the idea—a long process that may lock you into commitments you can’t keep, while the market evolves and your idea doesn’t—you start a business by immersing yourself in the business life of your clients, Gianforte said.

From that immersion, you develop an idea for a product or service. You then develop a one-page description of the idea, said Gianforte, and you immediately go to your clients and try to get orders. If they’re not buying, talk to them more to refine the idea, rewrite the description and go back to your market and seek orders again. Once you have orders, you build the product for your customers.

This way, Gianforte said, you are using your customers’ money to fund the growth of the business, not venture capital. This is bootstrapping, and it’s the way that Gianforte built five successful start-up companies.

While most MBAs think venture capital is needed, he said, less than 10 percent of new businesses actually raise outside funds. There are a number of reasons why start-up companies should not be beholden to outside financing. Gianforte said raising and using venture capital:

- Masks the hard questions about the financial viability of a start-up.
- Takes time away from your customers.
- Adds an additional set of “masters.”
- Puts you in a position of making a big financial mistake that’s fatal to the business. Without venture capital, you don’t have the funds to take those big risks.
- Removes the spending discipline of a business.
- Fixes your exit strategy and timing. With venture capital, timing is critical and an agreement with funders could, for example, force you to sell off the business.
- Causes you to sell your equity in the business at a very dear price. Without financing, you own much, if not all, of what you create.
Other reasons why the entrepreneur should engage in the discipline of bootstrapping are:

- Builds your business based on a legitimate, real-world business proposition.
- Initiates the critical sales learning process sooner, not later.
- Doesn’t waste money, but makes it.
- Accelerates the time-to-market and time-to-profitability.
- Forces the entrepreneur into unconventional thinking.

**Life of a salesman**

“Sales is the No. 1 job” is the first rule of Gianforte’s Rules the Bootstrappers Live By. “Sales is the most important, most noble aspect, of your business,” he said.

When Gianforte started RightNow in the mid-1990s, he called hundreds of customer service managers to find out what their main issues were. He learned from one client, Ben & Jerry’s ice cream, that the company had put up a Web site and received so many e-mail questions, some 5,000, that it was straining their manpower to answer.

Idea: Create a software application that contains a knowledge base and automatically answers e-mails, and make the application self-learning.

So it was off to “making bullets” (product development) and “shooting bullets” (making sales), said Gianforte, who likens business to war.

This is “First things first,” or rule No. 4, said Gianforte, who thrives in a competitive environment where there are risks and rewards and a little bit of a “rollercoaster” ride. And, ultimately, there are many more rewards in bootstrapping, he said.

—Peter C. Benedict
The spring of 2008 brought another successful sports season to Hoboken, particularly for the Stevens men’s tennis team, as the team earned an NCAA Tournament berth while the Ducks also saw several students honored nationally as outstanding student athletes.

Men’s tennis reached the NCAA Tournament for the second-straight season. In their first season in the Empire 8 Athletic Conference, Stevens defeated Ithaca in the conference championship to secure the NCAA berth. The Ducks defeated Neumann College 5-0 in the first round of the NCAAs but fell to Trinity University (Texas) 5-0 in round two. The Ducks finished the year with an overall mark of 16-7, and freshman Jay Lee was named the Empire 8 Co-Player of the Year.

The spring season also saw many moments of outstanding individual athletic achievements, among them by outdoor track and field standout Michael Hoffman ’08, who won the Eastern Collegiate Athletic Conference (ECAC) Robbins Scholar-Athlete Award for Division III schools. A biomedical engineering major, Hoffman was recognized for his standout athletic and academic career at Stevens, as these numbers reveal: a 3.98 grade point average and 27 school records in men’s cross country and track and field, among many other athletic honors. It was the second year in a row that a Stevens athlete received this honor. And this past June, Michael and his twin brother John ’08, a standout track and field athlete with a 3.95 grade point average in biomedical engineering, received first and second team honors, respectively, as 2008 College Sports Information Directors of America (CoSIDA) ESPN The Magazine Academic All-Americans.

Senior lacrosse player John Dolny ’08 was named a Scholar All-American by the United States Intercollegiate Lacrosse Association (USILA). A naval engineering major with a 3.47 grade point average, Dolny, who is second all-time at Stevens in career assists, was one of about 60 Division III athletes chosen for the honor.

In addition to the Hoffman brothers, a number of men’s track and field athletes enjoyed success this past spring, as Stevens produced seven Empire 8 all-stars and one conference champion. In April, Stevens placed third overall at the Empire 8 Outdoor Championships, with thrower Fred Hardenbrook crowned the conference champion with his school-best throw of 46.07 meters.

The women’s outdoor track and field squad established 11 school records this season and had eight team members named All-Empire 8. Sara Amitrani and Melissa Franzese qualified for the ECAC Championships, and Madylan Kulas was named the Empire 8 Sportswoman of the Year.

Stevens women also found success on the lacrosse field, as the Ducks finished with an overall record of 14-6. The Ducks were 6-2 in their first season in the Empire 8 Conference and reached the tournament championship, where they fell 12-11 to Ithaca. Three players were named first-team All-Empire 8, and the squad ended up winning the ECAC Metro-South Championship over Dickinson College, 22-16.

In its second year as a varsity sport, the Stevens Institute of Technology men’s golf team finished fourth at the Empire 8 Championship. Nine different members of the team posted new individual records or were contributors to a team record, as Stevens won a pair of matches during the year.

In the spring portion of the equestrian season, sophomore Kahri Olsen finished in fourth place out of 12 riders in the intermediate fences at the Zone Championship Show at Skidmore College. The baseball team enjoyed its first Empire 8 victory over Rochester Institute of Technology and finished fourth in the Empire 8. Ken Meerendonk led the Ducks in home runs (2) and runs batted in (25).

—Rob Kulish, Stevens Sports Information Director
‘Drood’ Revisited: Cast Reunited

During the spring semester of 1988, the Stevens Dramatic Society (SDS) produced the musical ‘The Mystery of Edwin Drood.’ It had just come off its Broadway run and seemed like a fun show to do, being a murder mystery where the audience picks the murderer. It was a huge success and filled the Stevens Theater at every single performance.

Twenty years later, the Dramatic Society decided it would be fun to produce ‘Drood’ once again and invited the original SDS cast and crew back to see the production this past April—to remember the fun they had when they produced the show and to meet the new cast and crew.

Alumni enjoyed dinner at Court Street Restaurant and Bar in Hoboken prior to the show, and after the performance met the 2008 cast at a post-show party. Many of the characters met their counterparts and enjoyed talking about the show and their involvement in the Dramatic Society. Those attending include ’88 cast and crew members Laura Dorival Paglione ’90, Tim Paglione ’90, Nancy Celestina D’Andrea ’90, Joe D’Andrea ’90, Alex Ricardo ’92, Tuyet-Hanh Nguyen Schnell ’91, Tedd Mullally ’88, Greg Paula ’88, Fernando Sumaza ’91, Mike Wong ’89, David Vincenti ’88, Lynda Cauda Vincenti ’89, Carl Russell ’91 and David Zimmerman ’90.

David J. Zimmerman ’80
Executive Director,
DeBaun Center for
the Performing Arts
The Stevens’ president welcomed the Institute’s largest freshman class yet this fall—some 598 students—with a sober warning and a very personal talk about how college-age alcohol abuse has touched his family.

At Convocation 2008, Dr. Hal Raveché silenced the Canavan Arena as he recalled three separate incidents when his family saw a college-aged family friend or acquaintance die an alcohol-related death. In one instant, his son lost one of his best friends in an alcohol-related death. Close family friends on their way to celebrate their son’s college graduation learned that he had died of alcohol poisoning. And four of his daughter’s college classmates died in a highway crash related to alcohol.

Raveché urged students to act responsibly—and to know that this type of tragedy could touch their own lives.

“Each year, we lose 1,700 students to deaths related to alcohol,” he said. And these repeated experiences inspired him to sign the “Amethyst Initiative,” a letter signed by a number of the nation’s college and university presidents and chancellors this past July to debate lowering the age 21 drinking age.

Raveché, who has four young adult children, said that his signature only means that he thinks the issue should be debated. He spoke about traveling to Europe and Asia, where binge drinking seems less of a problem and alcohol handled more responsibly.

“In America, unfortunately, we have a mystique about drinking,” he said. “It’s a cultural issue.”

Raveché said that despite some people’s efforts to intimidate college presidents who have signed the letter, the debate should go on.

“I think clarity will come out,” he said. “Nothing is gained by trying to suppress discussion on this issue.”

This life and death issue gave Convocation a more serious note than usual, but the day was also filled with celebrations, as Stevens recognized its top faculty and students with the day’s traditional awards.

Professor Woo Lee, director of the Center for MicroChemical Systems at Stevens, and Associate Provost of Graduate Programs Enterprise Ralph G. Giffin, III, received honorary master of engineering degrees that day, with Stevens Trustee Angie Hankins ’95 conferring the degrees.

Hankins, a law partner with Stroock, Stroock and Lavan of Manhattan, urged students to take the time to know their classmates, faculty and administrators. Her best friendships, she said, came from activities such as fencing and the Stevens Technical Enrichment Program.

“I can not stress enough the importance of relationships,” she said, noting that getting to know a fellow alumnus even guided her toward a job.

As students were officially inducted into the Stevens Honor System, student Andrew Kaplan, chairman of the Stevens Honor Board, reminded them that they are the 100th freshman class to be installed into the Honor System, which celebrates its 100th anniversary in 2008.

Stevens and the Honor Board are planning a number of events to celebrate this anniversary, culminating in an event during Stevens Founder’s Day next February.

Kaplan and others have been working to increase awareness of and improve the Honor System on campus. This past spring, they surveyed 1,100 students who said that “cheating was a serious problem on campus,” Kaplan said, and at the same time expressed a desire to gain the trust of the faculty. The survey results will be released soon and will be part of a campus-wide discussion on the Honor System, Kaplan said.

Kaplan urged Stevens students, staff, trustees and alumni to work together to strengthen the Honor System.

“The system has stood steadfast for 100 years … but without upkeep, this ‘bulk worth’ can erode,” he said.

During Convocation, Stevens also gave out student and faculty awards for excellence in research, teaching, academics and extracurricular activities, with a number of the awards established by alumni. Here’s a list of the awardees:

The 2008 Davis Memorial Award for Research Excellence, established by Jonas H. Ottens, Hon. M.E. ’77, to be given each year for excellence in research, to Professor Stefan Strauf, of the Department of Physics and Engineering Physics, for his research work summarized in the paper titled “High frequency single photon source with polarization control” published as a cover story in the December 2007 issue of Nature Photonics.

The following teaching awards are given to individuals of exceptional teaching ability who
have demonstrated a great influence on students in and/or outside the classroom.

The Harvey N. Davis Distinguished Teaching Assistant Professor Award to Professor Michael zur Muehlen, assistant professor, School of Technology Management.

The Henry Morton Distinguished Teaching Professor Award, to Professor Vikki Hazelwood, Ph.D. ’07, industry professor, Department of Chemistry, Chemical Biology and Biomedical Engineering, School of Engineering & Science.

Alexander Crombie Humphreys Distinguished Teaching Associate Professor Award to Professor Rainer Martini, associate professor, Department of Physics & Engineering Physics, School of Engineering & Science.

The Provost’s Award for Excellence in On-line Teaching, established to recognize outstanding contributions to on-line instruction and on-line educational program development by a member of the Stevens faculty, to Professor Steve Savitz, executive-in-residence, School of Technology Management.

The 2008 Distinguished Teaching Assistant Award, for exemplary teaching in recitation sections, to John R. Toland of the Department of Physics and Engineering Physics, and Sarath C. Jagupilla of the Department of Civil, Environmental and Ocean Engineering.

The Harvey N. Davis Award, established in 1959 in memory of Harvey N. Davis, Hon. D.Eng. ’48, president of the Institute from 1928 to 1951, is given to the student organization which contributes most to the college and its students. The award went to WCPR.

The Martha L. Kattwinkel Award, established in 1952 by O. Frank Kattwinkel ’48, in memory of his mother, this award is given to the member of the junior class who gives most unstintingly and unselfishly to Stevens, to Regina Pynn.

The Colonel Basil M. Stevens Award, established by Mrs. Basil M. Stevens in 1963 in memory of her husband, it is awarded to the member of the junior class who has been selected as being distinguished for courtesy and character. The award went to Massiel Parra.

The Ada and Edwin “Doc” Farrell Memorial Award, established in 1987 in memory of “Doc” Farrell, athletic trainer from 1974 to 1987, and his wife, Ada, by his three children, it is given annually to that Stevens undergraduate who is entering the junior or senior year, and who most typifies those standards “Doc” adhered to and constantly strove to instill in others: Be involved in your community; be respectful and responsible; be honest and forthright; give of yourself to those in need; and turn adversity into opportunity. The award went to Bruce Jordan.

Ondrick Scholarship, established in 1992 by alumni and friends of Professor William Ondrick, Hon. M.Eng. ’74, it is awarded to a student who is entering the senior year and who has outstand-
ing academic achievement and contributed unselfishly to the advancement of music at Stevens. The award went to Martin Burgert and Brian Quintin.

The Gustav G. Freygang Award, established in 1965 by the family, colleagues and friends of Gustav G. Freygang, Class of 1909, and former Stevens professor of mechanical engineering. It is presented to a member of the junior class and a member of the senior class for outstanding performance in the sequence of courses in mechanics given by the Mechanical Engineering Department. The award went to David Barth and Natalie Schloeder.

The CRC Press Freshman Chemistry Achievement Award, given by the Chemical Rubber Company Press for scholastic achievement in chemistry during the freshman year and to encourage students’ interest in science, Steven Schwartz.

The President’s Award for Community Involvement, given by President Hal Raveché in recognition for the undergraduate student who gives unendingly to improve student life, to John Dennan.

Hans J. Lang Award for Excellence in Cost Engineering and Engineering Economics, to the member of the junior class in engineering management who has distinguished himself or herself in these topics. This award, given in memory of Hans Joachim Lang ’34 by his family and faculty of the Bachelor of Engineering in Engineering Management (BEEM) program, went to Michael Munley.

The Robert H. Seavy Award, established in honor of Robert H. Seavy, M.S. ’48, Dean of Admissions, Emeritus, is given to the tour guide who best represents the values of Stevens Institute of Technology to prospective students and their families. Presented annually to the tour guides entering their senior year and who have given two or more years of exceptional service to the Office of Undergraduate Admissions, the award went to Michael Munley and Michael Stevens.

Panhellenic Council Academic Excellence Award is presented to the Panhellenic Council sorority who has achieved the highest grade point average for the Spring 2006 semester. Achieving a 3.40 GPA for the entire house, the winner was Delta Phi Epsilon.

Interfraternity Council Academic Excellence Award is presented to the Interfraternity Council fraternity who has achieved the highest GPA for the Spring 2006 semester. Achieving a 3.30 GPA for the entire house, the winner was Sigma Phi Epsilon.

Multicultural Council Academic Excellence Award is presented to the Multicultural Greek Council organization that has achieved the highest GPA for the Spring 2006 semester. Achieved a 3.43 GPA for the entire house, the winner was Lambda Upsilon Lambda.

The Tau Beta Pi’s Freshman Engineer Award, to the freshman student who has shown excellence in the engineering field, as well as exemplary character, to Anthony Shehab.

President’s Cup. This award was created by Stevens President Dr. Hal Raveché to recognize the Stevens athletic team that best exemplifies the values and ideals of the Stevens scholar athlete. The award is given to the team that has most excelled in athletic performance, academics, sportsmanship and citizenship. This year’s recipient is the women’s volleyball team. In 2006, the Ducks posted an overall record of 34-6 and set a new school record for wins in a season, which was the fourth straight year that the team accomplished this feat. Along the way, the Ducks captured their third-straight Skyline Conference title and ran their consecutive win streak against conference opponents to 31 straight matches. The No. 2 seed for the NCAA New York Regional Championship, Stevens captured its first-ever regional title and advanced to the Elite Eight of the NCAA Tournament. At year’s end, the Ducks were ranked fifth nationally out of 395 schools that sponsor women’s volleyball in Division III. Stevens was also No. 21 in the American Volleyball Coaches Association final national poll.

As a team, the Ducks posted a 3.25 grade-point average. The team also held a clinic for Rahway High School (N.J.), ran a clinic at Pier A in Hoboken and participated in the National Girls and Women in Sports Day clinic. The Ducks also read books to an elementary school in Roanoke, Va., as part of the Elite Eight Community Service Project. —Beth Kissinger.

The Office of Student Life contributed to this report.
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Dr. Michael S. Bruno says that he doesn’t know why the United States homeland hasn’t been attacked since Sept. 11, 2001.

Customs and border protection have certainly done an outstanding job, he says. The dean of Stevens’ Schaefer School of Engineering and Science also says that the focus on the security of the shipping supply chain—from a ship’s origin abroad to U.S. ports—has strengthened.

But this maritime expert knows that an act of terror in the nation’s ports is an ongoing, nagging threat.

“The risk is real, and certainly is the risk of an intentional, man-made event,” he says.

Now, Bruno and his team from across the country will be a vital link in the chain that helps to keep America safer.

Bruno is the lead researcher for the new Center for Secure & Resilient Maritime Commerce (CSR) at Stevens, a national effort being led by Stevens, with university partners, to help keep the nation’s ports safe.

This past February, Stevens learned that it had been chosen to co-lead a new Department of Homeland Security Center of Excellence, known as the Center of Excellence for Maritime, Island and Port Security. Stevens and co-leader the University of Hawaii are charged with conducting research, coming up with ideas for new technology and developing new ways to strengthen maritime domain awareness and safeguard populations and properties unique to U.S. islands, and remote and extreme environments. Stevens will lead research and education in port security, while the University of Hawaii will lead research in maritime and island security. The Center will receive a grant of $2 million a year for four to six years for its work.

In the area of port security, Stevens is leading an impressive team that includes MIT, Rutgers University, the University of Miami, the University of Puerto Rico, Monmouth University and the United States Merchant Marine Academy.

The Stevens team won the designation after more than a year of proposal writing, interviews, visits, and a lot of hard work, says Bruno, who spoke in his office inside Edwin A. Stevens Hall in July. Just several days earlier, an impressive group including top DHS officials, Congressmen and research partners had visited Stevens to formally launch the new center.

(See accompanying story on page 23.)

Bruno smiles as he recalls the excitement of that launch day, and the moment he first got the call from the DHS.

“Congratulations, you’re it,” they said.

“I was very excited,” Bruno says. “It’s a great thing for the
Researchers at Stevens’ Center for Maritime Systems and Davidson Laboratory will contribute their expertise to the new DHS Center for port security. **PHOTO: JIM CUMMINS**

university and one of the best, if not the best, gatherings of faculty, staff and students.

“Stevens is an equal to all those we perceive as our peers. The message is clear: in this area, and in several other areas, Stevens is poised to be a national leader.”

The Stevens research team for CSR is impressive. Some 100 people from Stevens—deans, professors, researchers, graduate and undergraduate students—will be working on this effort, with the Schaefer School of Engineering and Science, Howe School of Technology Management and the School of Systems and Enterprises all involved.

Stevens will conduct research in two areas: surveillance of ships in New York Harbor, through the development of sensors, and the resiliency of the Maritime Transportation System in the event of an attack or other disruption.

The CSR’s mandate is clear: look at the behavior of small vessels in and near the nation’s ports, beginning with New York Harbor, and learn about their possibly suspicious behavior—in relation to their expected behavior, Bruno says.

“Our aim is to provide detection capabilities for small vessels,” Bruno says. “It’s a very difficult problem which might represent a threat to one of our facilities here and ships in the harbor.”

Within this area of “surveillance,” Stevens’ own researchers will be focusing on several areas, including an area of Stevens expertise: camera-based, high resolution sensors. Researchers within the Physics Department will aim to develop higher resolution sensors (some sensor technology already exists and is now being used) that would be based on land and sea to examine the movement and behavior of ships. One goal is to also develop radically new types of sensors that can detect underwater objects. Meanwhile, another partner—the University of Miami—will aim to develop satellite, space-based sensors that can see ships at sea as well as their containers. Rutgers University, meanwhile, will work with Stevens to develop radar that can detect ships from the beach and over the horizon.

“Can we gather information from satellites, the environment and high-resolution sensors and can we say for certain
that something not normal is occurring?” Bruno says.

Sensors can also be dual use, from detecting the path of an oil spill to recognizing the release of a possibly dangerous airborne substance, Bruno said. The technology will also be invaluable in telling first responders, such as emergency medical workers and police, where to go in the event of an attack, he said.

Meanwhile, researchers from Stevens’ Center for Maritime Systems will focus on their area of expertise—observing and forecasting of the marine environment in and around New York Harbor. Having a deep understanding of the various physical aspects of that environment—winds, the waters’ saline concentration and other characteristics—is vital.

“One philosophy that we’ve had is the better you know your environment and the longer you study it, the more you are able to identify when something unusual occurs,” Bruno said.

Within Stevens’ “surveillance” goal, the Department of Electrical and Computer Engineering and the Department of Computer Science will also work on issues such as pattern recognition and object tracing.

Stevens’ second major area of research will be resiliency. Teaming with MIT, Stevens researchers from the School of Engineering and Science and the School of Systems and Enterprises will try to determine how the Maritime Transportation System could be made more resilient in the face of a disruptive event that could cause not only death and injury but also a threat to the flow of global commerce.

Finally, researchers from the Howe School will be working on the issues of “hostile intent” in the maritime environment and improvement of emergency response to an intentional attack or disaster, among other areas.

Dr. Jeffrey Nickerson, an associate professor with the Howe School of Technology Management, and his team will focus on emergency response to a terrorist attack or natural disaster on the maritime system, how decisions are made in these situations and ways to develop technology to improve decision making and response.

Nickerson, who has a Ph.D. in computer science and has analyzed the attack on the SS Cole for the Navy, said that his team may use simulation to model the way an emergency
response situation may work. Often during emergencies, two things happen: either emergency responders receive too little information, as radios and cell phone towers break down, or they are flooded with too much information, he said.

“We are looking at the human aspect of it—how much is too little and how much is too much (information),” he said.

Covering many geographies and various parts of the country, with various organizations involved in homeland security, DHS and its emergency response issues are much more complicated, Nickerson said. At the same time, many lives are often at stake.

“These are the hardest coordination problems and have a huge impact,” he said. “It’s very high-stakes and a very intricate and challenging response problem.”

As Stevens leads its Center of Excellence for Port Security, four other new DHS Centers of Excellence across the country—with 11 universities represented all together—will also be doing research in critical areas of homeland security, including explosives detection, mitigation and response; transportation safety; border security and immigration; and natural disasters, coastal infrastructure and emergency management.

Dr. Bruno points out that much of the knowledge and technology developed at Stevens will later be transferred to the DHS, which will try then to develop it and bring it to market.

And while the research is vital, Stevens and its partners have a second crucial mission for the DHS—education.

“DHS is very serious about using this Center as a vehicle to attract young people to engineering and science,” Bruno says. The hope is that—with such exciting new research opportunities and new courses at Stevens in maritime security—more young people will want to take jobs with the DHS.

“The nation is more secure with a more technological work force,” Bruno said. “The general aim is that a larger number of American students will enter more careers in engineering and science.”

With this mission of education in mind, Bruno says that he expects, at Stevens, to expand student research opportunities and internships; to add more graduate courses in maritime security; and to allow students to take courses at partner universities. CSR would also educate professionals already in the field and serve as the R&D for the Coast Guard, FEMA and other areas of the DHS.

One exciting new initiative is the Summer Institute for Maritime Security. Every summer, Bruno proposes gathering the “best of the best” graduate students from partner schools across the country, who would be given a problem to tackle, in the hope that they would come up with creative solutions.

Several times during this interview, Dr. Bruno spoke of the importance of team work between faculty and students, and of the Center, with all of its diverse members, being a true partnership.

They have not won a one or two-year grant. The Stevens team and its partners have been given the chance to work together for six years.

“That’s when a breakthrough can happen,” Bruno says. “We expect to do significant things.”
The community watched the Twin Towers collapse and the death toll in Hoboken later rise.

Stevens’ call to duty—and its maritime expertise—are part of its history, from Col. John Stevens’ pioneering work on the steamboat to Davidson Laboratory conducting torpedo research during World War II, Raveché said.

“We take this work very seriously because we know that it’s a real issue,” Raveché said. “It’s part of our legacy, part of our experience. We are determined to make a significant contribution.”

Raveché and top DHS officials were just some of the speakers who helped to inaugurate the Center on this whirlwind day which saw partners traveling from as far as Hawaii, several newspaper and TV crews covering the event and lamp posts across campus flying the CSR banner.

Stevens will co-lead the Center of Excellence with the University of Hawaii (which will focus on maritime and island security). Stevens’ partners for the CSR include MIT, Rutgers University, the University of Miami, the University of Puerto Rico, Monmouth University and the U.S. Merchant Marine Academy.

Many of these partners—including Rutgers President Richard L. McCormick and a representative from the University of Hawaii—turned out for the day, as did a gathering of elected officials, including New Jersey Senator Frank R. Lautenberg, Hon. D.Eng. ’99, and New Jersey Congressmen Steven R. Rothman and Bill Pascrell, Jr.

The man who will lead the DHS Center at Stevens—Schaefer School of Engineering and Science Dean Michael S. Bruno, Hon. M.Eng. ’01—spoke of the vital partnerships between academics, industry and government in this mission.

“In my view, it’s most importantly about partnerships,” he said. “Researchers were brought into the room to discuss the issues; it’s a two-way conversation.”

Bruno focused briefly on the research areas that CSR will undertake, among them developing high resolution land and sea-based sensors, radar and satellites, to improve domain awareness in the port, and improving resiliency or how well
the Maritime Transportation System can survive a man-made or natural threat.

Jay Cohen, DHS Under Secretary, Science and Technology Directorate, and a Manhattan native, enthusiastically spoke of Stevens and the work ahead.

“It’s a great DHS day,” said Cohen, the day’s keynote speaker. “We’re recognizing the incredible jewel of Stevens Institute and how the team it has put together is making the nation more secure.”

Cohen spoke of the DHS’s goals for the Center, among them to provide advanced technological capabilities for the Coast Guard, Secret Service, local police and fire chiefs and others, and to invest in the next generation of the nation’s scientists and engineers.

“The nation is in crisis,” Cohen said. “Science, technology, engineering and math—our young men and women are turning away from math and science in middle school. When you ask them why, they tell you the truth—it’s too hard. They’re the PlayStation Generation; they want instant gratification.”

Efforts like the Center and its professors and many research opportunities can help to inspire future engineers and scientists, he said.

“If we set our mind to it, we’ll accomplish it,” Cohen said. “We put a man on the moon ... It’s a great day, and the future looks bright.”

Lautenberg, meanwhile, spoke of the economic importance of the country’s ports and the urgent need to protect them. The Port of New York/New Jersey itself supports 230,000 jobs and $20 billion in economic activity, Lautenberg said. The area is among the most inviting terrorist targets in the country, he said, as some 12 million people could be exposed to an attack in and near the port.

Lautenberg warned against a “pre-9/11 mindset” and expressed confidence in Stevens as head of the new DHS Center.

“We feel that it is in good hands with Stevens in charge,” he said.

Stevens ended the day with lunch and tours of the CSR facility on the sixth floor of the Babbio Center. —Beth Kissinger

Several elected officials spoke at the CSR opening and attended the ceremony, including New Jersey Senator Frank R. Lautenberg, Hon. D.Eng. ’99, above, and Congressmen Steven R. Rothman, left, and Bill Pascrell, Jr., right, in bottom photo, with Stevens Provost George P. Korfiatis, Hon. M.Eng. ’95. BOTTOM PHOTO: JIM CUMMINS
It was one of those ice breaker moments of Alumni Weekend 2008, when Herb Goller ’58 saw classmate Richard Harries for the first time in 45 years.

Goller greets him in German, then “It’s so good to see you.” They pause awkwardly. But soon they’re introducing their wives, Harries throws his arm around his old friend—and they mention that they’ve kept in touch by phone for 47 years. They laugh about their class’s “Irish” and “German” sections, the Stevens prom—Mrs. Goller’s first—and its spiked punch and so many other moments.

“We have good memories,” Marianne Goller says, as the classmates chat away.

At another Alumni Weekend moment, two ’58 classmates needed no re-introductions.

Bruno Katsch and Milan Sowis grew up a block from each other in Irvington, N.J., and have known each other since they were fourth graders at Augusta Street School.

“We played in the street together. We went to high school together. We grew up together,” Sowis says. They were each other’s best man at their weddings.

And both went to Stevens, Katsch driving them in his parents’ car each day from Irvington. They were even lab partners.

There are some differences. Sowis worked for 32 years at AT&T and Bell Labs, where he was a supervisor, and Katsch was an engineering supervisor with PSE&G. Sowis loves the Yankees; Katsch, the Dodgers.

Why did both attend Stevens?

“I had to keep up with this guy,” Katsch says.

So many more moments like this replayed over Alumni Weekend 2008.

The weekend this past May saw a strong turnout of classes marking special anniversaries—those ending in “3” or “8”—as well as other classes looking to reunite with old friends and participate in the weekend’s many activities. Several generations of Stevens alumni gathered for private suppers and receptions, the well-attended Alumni Luncheon and Dinner Dance, campus tours and other activities. The Class of 1958—marking its 50th anniversary—entered the Stevens Old Guard and saw more than 78 alumni and guests come back to Stevens. But the weekend also attracted more than 100 young alumni, who made for a lively gathering at a Hoboken restaurant for a Graduates of the Last Decade (GOLD) Friday night social.

As he celebrated his class’s 40th reunion, Marty P. Valerio ’68 received the prestigious Stevens Alumni Award at the Alumni Luncheon for his outstanding dedication and loyalty to the Institute. (See accompanying story.) The Alumni Association also honored several members of the more recent anniversary class.

Photos by M. Kathleen Kelly & Jim Wright

Continued on Page 28
Several generations of alumni—from the 1940s through the 2000s—turned out for Alumni Weekend. Among the most jubilant: Sally and Lou Shook ’48, who celebrated Lou’s 60th reunion anniversary.
planned this hike that also included a visit to Ground Zero. Sadly, Mr. Koenig, an active member of the Class of ’58 Reunion Committee, passed away in January 2008. But his dream of this urban hike continued, with Sheila guiding it, and became among the most praised events of the weekend.

“He’s here in spirit, absolutely,” Sheila Koenig said, as she toasted her husband at his class dinner that Friday night. Mrs. Koenig traveled from Oregon to celebrate for her husband, as Fran Viertel, the wife of the late ’58 Class Secretary Richard Viertel, came in from California. Dick passed away in 2005 and had helped plan many class reunions, including the class’s 45th in 2003.

Both women received strong ovations during the Class of 1958’s class dinner—an evening filled with emotion. The room was still as Ray Cabrera read the names of deceased classmates. But joyful moments outnumbered the somber ones, as hearty toasts, cheers and good conversation filled the room.

The evening included a number of awards and a talk by Stevens President Harold J. Raveché, who gave an update on Stevens and its accomplishments in research and academics. The Class of ’58 presented Dr. Raveché with a check for $58,000, to go toward the class’s scholarship fund, with 54 percent of the class making donations.

Reunion classes gave generously to Stevens this year, as the classes of 1938 to 2003 gave a total of $258,000 in gifts and commitments, many to the classes’ scholarship funds. Dr. Raveché graciously thanked these alumni for their support, as he addressed them in his “State of the State” speech at the Alumni Luncheon.

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es, from 1983 to 2003, with the Harold R. Fee ’20 Alumni Achievement Award for their outstanding service to the SAA and the Institute. Honored at the weekend’s Alumni Dinner Dance were: Ronald M. Panicucci ’83; Franklin W. Boenning ’88; Mark I. LaRosa ’93 and Joelle M. Hinds-Ware ’93; Joseph G. DiPompeo ’98; and Terrence M. Carroll ’03.

While most alumni returned to campus on Alumni Day, the Saturday of Alumni Weekend, the golden anniversary class got the party started days earlier.

A fine turnout of ’58ers came back to campus the Thursday before Alumni Weekend, when they embarked on a walking tour of the Brooklyn Bridge and Downtown Manhattan that simply became known as “Hank’s Hike.”

Avid outdoorsman Hank Koenig ’58 and his wife, Sheila,
He had an “overwhelming” feeling of loneliness that fall of ’64 when he first stepped on the Stevens campus, one of 400 freshmen alone and friendless.

But it didn’t take Marty P. Valerio ’68 long to make friends—and to become deeply involved in the daily life of the Institute. More than 40 years later, his warm presence and hard work for Stevens—from Alumni Association leader to adjunct professor and benefactor—can be seen and felt most every day on campus.

And when it came time to honor him with the Stevens Alumni Award this past May on Alumni Day, Marty’s many Stevens friends from over the years turned out for him. Filling several tables, they—along with Marty’s extended family and the entire Alumni Luncheon audience—greeted him with a standing ovation.

“To walk the campus and meet the people that I knew as faculty, such as Dr. Silvio Lacetti (also in the audience), brings out such feelings of gratitude,” Marty said.

Looking out over the audience, he saw “lifelong” friends from Stevens—Al Foytlin ’68, Stevens Alumni Association President and fraternity brother Ed Eichhorn ’69, SAA Executive Director Anita Lang—who walked the Stevens campus with him all those years ago.

“It’s an honor to have known each of you for over 40 years,” Marty said. “And we all look so much better today than we did back then!”

The past SAA president spoke with much warmth—and humor—as he received the prestigious Stevens Alumni Award, which recognizes an alumnus’ outstanding loyalty and devotion to the college.

Marty’s impact on Stevens has been wide and reaching, as revealed by the people who showed up to honor him. They included not only his extended family and old friends but also people in the Stevens community both within and outside the Alumni Association.

“My wish is that my achievements set an example for younger alumni now and in the future.”

Marty P. Valerio 2008 Alumni Award recipient

Marty P. Valerio ’68, right, longtime Stevens Alumni Association leader and Stevens supporter, is congratulated by Stevens President Hal Raveché.

Marty, of River Edge, N.J., has been active with the SAA and Stevens for many years, and serves as an SAA trustee and member of the SAA’s Long Range Policy and Planning Committee and Nominating Committee. He is president of the Stevens Metropolitan Club and founder and past president of the SAA’s Civil Engineering and Construction Club. Marty also served as co-chairman of the Class of ’68’s 40th anniversary reunion committee this past year and is the reunion classes chairman with Stevens’ Office of Advancement.

At Stevens—drawing on his expertise as a Licensed Professional Engineer and longtime project manager in New York City—he works on facilities projects with Stevens Vice President of Facilities and Community Relations Hank Dobbelaar. And he works directly on behalf of Stevens students, as he teaches graduate courses with the Construction Management Program and is secretary of the Honor Board.

Continued on next page
The Advisory Committee. Marty and his wife, Holly, have also set up an endowed scholarship for students studying civil engineering and the arts at Stevens.

It was Holly whom he mostly needed to please, as he crafted his acceptance speech, Marty told his audience with a big smile. When he mentioned that he may have trouble keeping his remarks to under three hours, her response was quick.

“If you’re not done in three minutes, I’m leaving,” she told him. So Marty proceeded to thank his friends, to thank Stevens—and to keep on schedule.

He praised the “wonderful” people he’s met over the years and greeted some, such as past SAA President and former Stevens professor Dick Magee ‘63 and George Johnston ‘72, by name. He marveled at how members of the Stevens community of his past have moved with him to the Stevens of today, all with a mission to help the Institute.

This father and grandfather spoke passionately of this mission. “The main goal is to support the Institute so that tomorrow’s students can receive assistance like we did,” he said.

“This award is about people—people who believe in and love the Institute. My wish is that my achievements set an example for younger alumni now and in the future.”

At that point, Marty, in jest, grabbed his cell phone and informed all that Holly was calling to tell him that his three minutes were up. As he closed his speech—pretty much on schedule—his audience and all of his many friends gave him once again a rousing ovation.

Members of the Alumni Luncheon audience—among them Marty Valerio’s family and good friends—gave Marty a standing ovation as he prepared to receive the Stevens Alumni Award.

Alumni loyalty honored
Outstanding younger alumni from this year’s anniversary classes grabbed the spotlight at the Alumni Dinner Dance, as the SAA honored them with the Harold R. Fee ’20 Alumni Achievement Award. The award, named after the late SAA executive director, recognizes outstanding service on behalf of the SAA and the Institute. From left: Awards Committee Chairman Joe Weber ’64, awardee Mark LaRosa ’93, awardee Frank Boening ’88, awardee Joelle Hinds-Ware ’93, SAA President Ed Eichhorn ’69 and awardee Joe DiPompeo ’98. Absent were awardees Ronald Panicucci ’83 and Terrence Carroll ’03.
The Stevens president noted the good turnout for this weekend, from the '58ers to the youngest alumni at the GOLD reception.

"It's indicative of the appreciation that alumni have for what Stevens gave them," he said, assuring the alumni present that the Stevens' broad-based education, depth in skills and strong work ethic is "the same today as yesterday."

But there is one difference today. Being good in your field and having a good work ethic is not enough, Raveché said, as engineers around the world are willing to work for less money. Engineers "have to have more," he said, such as having the ability to recognize the problem that needs to be solved as well as the talent to solve it; to have a higher sense of the needs of industry; to be more innovative—all skills that Stevens fosters.

Raveché noted some discouraging statistics regarding American industry and innovation, with the United States number four in the world in industrial production, with manufacturing only making up 12.2 percent of the gross national product, with a 12-year slow-down in innovation and Japan leading the U.S. in IPOs.

In the wake of these challenges, Raveché noted the importance of the upcoming presidential election. "We in the U.S. need to develop an innovative spirit to rekindle the sense of enterprise that built this country," he said.

"This time in America is a time for Stevens Institute of Technology."

Raveché then spoke of a number of successful Stevens-based entrepreneurial efforts, among them the SPOC (Stevens Proof of Concept) pain locator device developed by Stevens students and Dr. Norman Marcus. SPOC recently received FDA510 clearance for manufacturing and marketing as a clinical device.

Several Stevens alumni make up the SPOC team, and Raveché praised their and the accomplishments of so many Stevens alumni over the years.

Jennifer and Joe DiPompeo '98 enjoy the Alumni Dinner Dance, where Joe received the Alumni Achievement Award.

In conversation over the weekend, alumni certainly attributed some of their success to their solid Stevens education.

After Stevens, John Jacobsen '58 became a naval officer and engineer and worked with NATO in Norway. As a Seabees captain, he built construction projects internationally.

"I always looked back at the lessons that I learned at Stevens," including the varied education, he said, "That helped me get into other opportunities."

Among the Class of '58 are executives, senior-level engineers, professors and entrepreneurs. Mike Bonner is a Brookhaven National Laboratory and Oak Ridge National Laboratory engineer whose nuclear safeguards work took him to Europe, Russia and Siberia many times, as he still works for ORNL. Art Bendelius is a retired senior vice president with Parsons Brinkerhoff and active consultant, who worked on every continent except Antarctica. Ray Cabrera spent 34 years with Union Carbide, working in Thailand, Capetown, South Africa and Buenos Aries.

A Korean War veteran who entered Stevens four years older than most of his classmates, Cabrera said that the opportunity for an education at Stevens changed his life.

"It made a world of difference; it's significant," Cabrera says.

While some Stevens alumni entered the Institute with war experience, others came from an entirely different world. Ivan Shim '58, now of Melbourne, Fla., grew up in the West Indies and entered Stevens in 1954, the first in his family to attend college.

"I was one of two Asians in the class," he says with a smile, and of Chinese descent.

His English was slightly different from his classmates, but Shim found a bigger adjustment in adapting to American customs. Life in the West Indies was governed by an informality and relaxed pace, as neighbors and friends always felt free to drop by each other’s homes at the spur of the moment. In America, he found a greater formality, he says.

But he adjusted, played soccer at Stevens, worked in the Psychological Studies lab with Professor Frederick Gaudet—
and made his life. Despite his family’s request that he come home and start a business, Shim made the U.S. his home, had a successful career as an engineering manager, retired early and later spent two years at Jiatong University in China teaching English.

While members of the Class of ’58 had the most chances over the weekend to meet and catch up on each other’s lives, other reunion classes also held special gatherings. The Class of ’63 marked its 45th anniversary with a well-attended dinner cruise along the Hudson River. Stevens Vice President Maureen Burke Weatherall and husband Jim Weatherall, both of the Class of ’78, hosted a cocktail party at Pollara House, their home on campus, for their class, as it celebrated its 30th anniversary.

And in a quiet corner of the Williams Library, about a dozen members of the Class of ’48 and their wives shared memories of Stevens and America more than 60 years ago. The feeling was warm, reflective.

Steve Mallard ’48 remembers a class not of young school boys but mostly men—veterans who had survived World War II and brought a sense of seriousness of purpose to the campus.

“We were in the wake of World War II. Things were tumultuous,” he says. “Many of us came to class wearing parts of our Army uniform.”

The war meant that those students called to serve their country had to temporarily leave Stevens or finish their studies at an accelerated pace, through the Navy’s V-12 program. Indeed, memories of those times, of long commutes to Stevens, of family and careers dominated this gathering.

They would never say it, but this group showed their extraordinariness this day, from their service in two wars, to traveling from as far as North Carolina and Maryland for this day, to having among its ranks men still working in their field.

Lou Shook ’48 of North Carolina—bicyclist, hiker, president of Shook Construction—may have said it best.

“I’m the same SOB I was 65 years ago,” he said with a grin.

The weekend ended for most with the Alumni Dinner Dance inside its new venue—Canavan Arena, which was transformed by soft-colored light, fabric and music into a near ballroom.

As alumni couples floated across the dance floor, Fernando Pertuz ’68 and his wife, Veronica, took a break at their table. They had flown in from their home in Colombia because they had promised friend Marty Valerio ’68 that they would. Fernando reflected on leaving Colombia for Stevens at age 16, embracing American college life, enthusiastically taking classes in U.S. history and government because “I decided that if I was going to be here, I was going to make my focus here.”

He later returned to Colombia, enjoyed a successful 25-year career as an engineer and manager with IBM and raised two sons with Veronica.

The excitement of the weekend was still with him, as he recalled seeing his old friends and, incredibly, his former humanities professor, Dr. Silvio Laccetti, Hon. M.Eng. ’96, after so many years.

“He saw me; he said, ‘Fred!’” Pertuz says with his great laugh.

Surely, for the reunion classes—and particularly the 50th anniversary class—the weekend was a time to treasure the moment.

“This is a real high for me,” said Nick Mestanas ’58. “The ’58 Reunion Committee worked for 18 months; I think (they) did an outstanding job.

“It’s just grand.”
Racing for glory and lollipops

Gabriel Neyra—all of 23 months—seems most interested in the bright pink cones lining the race course. But his parents can’t wait for his Lollipop Run debut.

“We’re excited to see what he’s going to do,” says dad Victor R. Neyra ’99, who drove up with Gabriel and wife Eliana from South River, N.J. “We don’t know if he’ll run after the lollipops, or in circles, or after his mom.”

Gabriel was the youngest of the Lollipop Run racers on Alumni Day, and though threatening rain clouds meant only a handful of runners this year, spirits soared on DeBaun Field.

Gabriella, 7, and Jorge, 3, Rivera—children of Angie Roda Rivera ’92 and Jorge Rivera ’89—have come up from Middletown, N.J. for the race and are race regulars. Their dad and mom—a runner and track team manager during their Stevens days—have been coming to the Lollipop Run to help friend and former Stevens track and cross country coach Al Alonso ’83 with the race for over a decade. So their kids are excited.

“They spend the whole year asking about it.”

After stretches, the runners take their places, the little ones and the older kids separately. Gabriella Rivera gives it her all, but Cassandra Fernandez-Alonso, 7 (Al’s niece), sweeps the big kids’ race. During the little kids’ race, a little girl runs the wrong way, and an unsure Gabriel ends up chewing on one of those bright pink cones. But, with the big kids cheering them on, Gabriel regroups, the little girl turns around the right way, and everyone crosses the finish line winners.

In the end, at the Lollipop Run, everyone gets medals, juice and, of course, lollipops. —Beth Kissinger
For the second year in a row, the DeBaun Center for the Performing Arts produced “Good Ship Pride of Communipaw Flats” in May for Alumni Weekend. Written by James T. Costigan ’33 and first performed in April 1933, the show was performed for many years by upperclassmen for the incoming freshmen.

Many generations of Stevens alumni have enjoyed productions of “Good Ship Pride,” and the DeBaun Center for the Performing Arts thought it would be a good production to resurrect for Alumni Weekend. And for the past two years, the 50th anniversary class has participated in the show.

This year, members of the Class of ’58, being Stevens Engineers, saved the good ship “Pride” from exploding, due to their engineering skill and knowledge.

Special thanks go out to those in the Class of ’58 who participated in the production, to all of the current students and recent alumni who were in the cast and crew, the director of the show, Bob Reed ’70, and both Dawn da Silva from the Stevens Office of Advancement and Elizabeth Raveché, who made special appearances.

David J. Zimmerman ’90
Executive Director
DeBaun Center for the Performing Arts

Jasmine and Nick Mestanas ’58 lead the audience in “sound effects” during the production of “The Good Ship Pride of Communipaw Flats” at the DeBaun Auditorium.

The hero and heroine fall in love—and almost fall over—on the “Good Ship.” The DeBaun production featured alumni, students and other members of the DeBaun Center for the Performing Arts and the Stevens community.

Art Bendelius, far left, Bob Fiocco (in NJIT sweatshirt) and other members of the golden anniversary Class of ’58 portray the Stevens Engineers who save the day aboard “The Pride.” The production, once a Stevens tradition for incoming freshmen, returned last year for Alumni Weekend and has featured the 50th reunion class.
Alumni Day Highlights

Beer Seminar participants, above, join in the fun over Alumni Weekend, while one alumnus, at left, sits for his portrait, as the Alumni Day caricature artist does her work.

A fresh look
Alumni, their families and friends enjoyed a fresh look at their alma mater this Alumni Weekend, with several campus tours and other activities that have become tradition. Stevens President Hal Raveché and his wife, Elizabeth, opened the doors of their 1920s home, Hoxie House, while the newly renovated Davidson Lab was also a popular stop. Another annual favorite: the Beer Seminar.
Photo Album:
Alumni Weekend 2008

Class of 1958—50th Reunion

Class of 1963—45th Reunion
Special anniversaries
Class years ending in “3” or “8” marked special anniversaries during Alumni Weekend 2008 in May and celebrated together with intimate dinners, the Alumni Luncheon and Dinner Dance, cruises on the Hudson and more informal gatherings all around campus and the Hoboken area. The classes also gave generous class gifts to the Institute to ensure that future generations of students enjoy the high quality Stevens education that they did. Here’s a look at some of these reunion classes for 2008.

Class of 1958 makes a contribution.

Class of 1953—55th Reunion

Class of 1968—40th Reunion
A HIGHER
New Jersey’s governor urges the Class of 2008 to use great talent to serve country and community

By Beth Kissinger
Editor of Alumni Publications

New Jersey’s governor reminded the Stevens Class of 2008 that they now have a high calling—to country and community.

“The people of America will depend on you,” Gov. Jon S. Corzine told some 370 members of the Class of 2008 during the undergraduate Commencement ceremony on May 22 at Stevens. They will be needed as engineers, scientists and entrepreneurs, as China now produces twice the number of engineers each year as the U.S. does, Corzine said, while India also forge ahead. America’s technological pre-eminence is certainly challenged, he said.

But Corzine, who received an honorary doctor of engineering that day, urged Stevens graduates to use their great talents to also make a difference right in their own communities, by perhaps becoming teachers with the “Teach for America” program.

He praised Stevens for the high quality education and opportunities it’s given them and placed Stevens’ newest graduating class in the class of New Jersey’s greatest innovators.

“The Stevens graduating Class of 2008 follows in the great footsteps of those who preceded them at the Institute, and of Einstein’s and Edison’s,” Corzine said.

The Class of 2008 enjoyed a fine sendoff in late May, as joyful family and friends and the Stevens community packed an outdoor arena on 8th Street to celebrate commencement.

As it has been for the past several years, the 8th Street parking lot was transformed into an outdoor arena filled with flags of dozens of nations representing the students’ many ethnic backgrounds and countries of origin, flowers, a giant screen TV, a balcony area. Intermittent rain came during the undergraduate ceremony, but Stevens Vice President Maureen Weatherall ’78 saw it as a good sign, as in the old Irish saying.

“If it rains the morning of your wedding or your graduation, you will have many years of good luck,” Dr. Weatherall told the graduates. Indeed, it was a good day for the Weatherall family, as she and husband Jim ’78 celebrated the graduation of their daughter, Katie. Another alumni couple, Karen ’76 and Tom Buroojy ’75 also saw their daughter Lauren graduate.

Corzine and Dr. Curtis R. Carlson, president and CEO of SRI International, received honorary doctor of engineering degrees for their accomplishments in their fields. At the Graduate School ceremony—which saw some 950 students receive advanced degrees, the largest class in the Institute’s history—Virginia P. Ruesterholz ’83, president of Verizon Telecom and a member of the Stevens Board of Trustees, received an honorary doctor of engineering degree and was the keynote speaker.

Photos by Kathy Cacicedo
The undergraduate Class of 2008 also honored three valedictorians this year, all of whom earned perfect 4.0 grade point averages: Kresti Pecanio of Staten Island, N.Y.; Anthony Najem of Totowa, N.J.; and Amanda J. Rogers of Mahopac, N.Y. (See more on the class’s valedictorians on the following page.)

And a tradition started several years ago continued, as members of the Class of 1958—marking their 50th anniversary this year—participated in the ceremony, as they walked with the graduates, wore black graduation robes and received a warm welcome from the crowd.

Dr. Carlson called the Class of 2008 his heroes, praising them for their high level of skill and urging them to grab opportunities to make the world better.

“I believe that this is the best time ever in the history of science and technology,” Carlson said. The Internet is still in its infancy, while the next great innovations in energy and medicine will come from this class’s generation, many of whom will live to be over 100 years old, he said.

As five million people a year die of infectious diseases and three billion people live on $2 a day, innovations to help tackle these and other of the world’s pressing problems are much needed, Carlson said.

Carlson urged the graduates to have high expectations of themselves, to help meet needs that will actually help humanity.

“I know from experience that some of you will positively change the world,” he said.

Speaking to their fellow classmates, the class’s three valedictorians each delivered messages of thanks and of hope.

Anthony Najem, who participated in the Stevens Cooperative Education program at Stevens, praised the program for its recent top ranking as 16th in the nation among the country’s universities. He thanked several Stevens professors and his parents for giving him the support he needed to “survive Stevens,” he said. Lastly, he implored his fellow students.

“Just remember: you can do anything,” he said.

Valedictorian Kresti Pecanio immediately thanked his parents “who sacrificed and worked so hard,” his older brother Edrin ’05, who set such high standards for him, his professors, his girlfriend.

He recalled engineering management luminary Frederick Winslow Taylor, 1883, and Nobel Prize winning physicist Frederick Reines ’39—and urged his classmates to join this prestigious group of Stevens innovators.

“Let’s follow in their footsteps,” he said. “Let’s become the next generation of great inventors … so future generations will recognize us.”

Valedictorian Amanda J. Rogers gave thanks for her time with DeBaun Auditorium, where she performed with several jazz ensembles and as a musician for theatrical productions. “They made my time at Stevens an entertaining and diverse experience,” she said. Rogers also thanked her family and friends. And she told her fellow students that, with the education they’ve been privileged to receive, they now have a duty to take on the challenges facing the world.

During the late afternoon Graduate School ceremony—distinctive for its gathering of extended families and young children of the graduates—speaker Virginia P. Ruesterholz ’83 reflected on a different Stevens that she entered as an undergraduate. Women made up only about 20 percent of the enrollment in 1983, but she recalls feeling immediately comfortable.

“And I’ll never forget the words of encouragement I received from my mother: ‘Well, at least you should come out with a husband,’” Ruesterholz said with a big smile.

She would actually go on to have a “brilliant chem. lab part-

Continued on Page 42
The Class of 2008 produced three valedictorians this year, all of whom obtained perfect 4.0 grade point averages. Here’s a glance at these three extraordinary Stevens alumni.

Anthony Najem
Anthony Najem, who hails from Totowa, N.J., graduated with, amazingly, a bachelor of engineering degree in chemical engineering, a master of engineering degree in chemical engineering and a graduate certificate in engineering management. He received numerous scholarships and academic awards during his Stevens career and participated in the Stevens Cooperative Education Program. He also served as a teaching assistant and a tutor with the Institute’s Academic Support Center.

Mr. Najem is now working with the ExxonMobil Corporation in Beaumont, Texas, as part of the company’s Refining and Supply Unit-Beaumont Area Projects.

Kresti Pecani
The Staten Island, N.Y., resident earned a bachelor of science degree in chemical biology and won a number of scholarships and academic awards at Stevens. He served as a tutor with Stevens’ Academic Support Center.

Mr. Pecani was born in Tirana, Albania, and came to the United States with his family in 1994, when he was 7 years old. He attended Stevens in the footsteps of his brother, Edrin ’05, M.S. ’05.

Mr. Pecani is applying to dental school and plans to pursue a combined DDS/Ph.D. degree.

Amanda J. Rogers
Ms. Rogers, of Mahopac, N.Y., earned a bachelor of engineering degree in chemical engineering and was also the recipient of several scholarships and awards during her years at Stevens.

She’s also a jazz musician who played brass with the Stevens Jazz Band, performed with Engineered Improvisation, a small jazz combo on campus, and participated in the pit band for performances of the Stevens Dramatic Society and the Theater Company at the DeBaun Center for the Performing Arts. A member of Tau Beta Pi, the engineering honor society, she is also a member of the New Jersey Alpha Chapter of Theta Alpha Phi, the national theater honor society.

Ms. Rogers is now working as a chemical engineer with Bristol-Myers Squibb, in its Process Research and Development Department. —Stevens News Service
Continued from Page 40

Resterholz, Kevin ‘83, who is her husband of 24 years and who, along with their children Katie and Scott, came to cheer her on today.

“So if you only remember one thing I tell you today, it’s that your mother is always right!” Resterholz said with a laugh.

The president of Verizon Telecom also shared “five important lessons that helped guide me on my journey:” focus on your strengths; your Stevens degree is your trump card; approach your work with enthusiasm; opportunity is always knocking; and you can’t do it alone.

Resterholz remembered back to her high school years and her calculus teacher Sister Margaret Mary in Holmdel, N.J., who changed her life by telling her to focus on her strengths in math and science to become an engineer. It’s a lesson she’s carried throughout her career.

“By focusing on your personal strengths, you’ll be more productive, enjoy your work, and find exciting new ways to enhance your life and the lives of those around you,” she said.

Her Stevens degree, indeed, has been a “trump card,” she said, because her chemical engineering degree “opened doors for me that otherwise might have been closed” and set her apart from other job candidates.

Resterholz spoke strongly of the need for enthusiasm for work.

“Your career will take up one-third of your life over the next three or four decades,” she said. “So you owe it to yourself to find a place where you’ll enjoy working and can make a meaningful contribution.”

Regarding embracing opportunities, Resterholz recalled being in her twenties, with no telecom experience, and being put in charge of a team of well-experienced men in this area; of accepting jobs that may have seemed “out of my league.”

“By stretching yourself, you’ll learn new skills, expose yourself to even greater opportunities, and best of all—you’ll surprise yourself at how much you’re actually capable of achieving,” she said.

For her final lesson, Resterholz said: “You can’t do it alone. She spoke of the importance of mentors and those who have supported and guided her along the way.

“And if you’re like me, you’ll discover that your most important advisers are the people closest to you,” she said.

“Throughout my career, I relied on my parents, my husband and my children to keep me grounded and remind me of what’s really important in life.

“When you’ve had a hard day at work, your friends and family are always there to support you and cheer you on. Tell them how much you appreciate their help, and let them know you love them.”

And with that, Resterholz told her husband, son and daughter just that.

Seven members of the Class of ’58 once again put on their graduation robes, donned their caps and marched in a Stevens Commencement ceremony, this time with the Class of 2008. The class—marking its 50th anniversary in 2008—was invited by Stevens to participate in the graduation ceremony, as they took their seats of honor in the arena and were recognized by the Stevens community. This Commencement tradition for each year’s 50th reunion class began in 2006, with the Class of 1956.
Would you like to share your Stevens Traditions?
This occasional feature story in The Stevens Indicator spotlights alumni across the decades recounting life at the Stute, from the classroom to the frat house, the V-12 to the iPod.

Send your story ideas and photographs to:

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For additional information, contact the Stevens Alumni Office:
(201) 216-5163 • alumni@stevens.edu

http://alumni.stevens.edu
The following is the full text of the citations that were read at commencement during the presentation of honorary doctor of engineering degrees to New Jersey Gov. Jon S. Corzine, entrepreneur and scientist Curtis R. Carlson and Verizon Telecom President Virginia P. Ruesterholz.

THE HON. JON S. CORZINE

Governor Jon S. Corzine graduated Phi Beta Kappa from the University of Illinois at Urbana-Champaign in 1969 and enlisted in the U.S. Marine Corps Reserves. He remained in the reserves until 1975, rising to the rank of sergeant in his infantry unit.

After his active duty in the Marine Corps, he began his career in finance, working as a portfolio analyst at the Continental Illinois National Bank in Chicago. He enrolled in the graduate business school of the University of Chicago in 1970, first attending classes at night. He received his M.B.A. in 1973, and went to work at Bank Ohio, a regional bank in Columbus, Ohio.

In 1975, Goldman Sachs, the New York investment firm, recruited Corzine, and he and his family moved to New Jersey. He was named a partner at Goldman Sachs in 1980 and became chairman and chief executive officer in 1994. He left Goldman Sachs in May 1999 after successfully converting the investment firm from a private partnership to a public company.

During Gov. Corzine’s leadership at Goldman Sachs, the business magazine Fortune named Goldman Sachs one of the 10 best companies to work for in America. The governor was named by Time magazine as one of the top 50 technology executives in the country in 1997.

As the chief executive officer at Goldman Sachs, Gov. Corzine expanded the company’s community outreach and philanthropic programs, establishing a company-wide service program in which employees volunteer on a regular basis in their communities. Also in 1997, Gov. Corzine was the chairman of a presidential commission to study capital budgeting as a means of increasing federal investment in schools, technology and infrastructure.

Jon Corzine was elected to the United States Senate in November 2000. During his time in the Senate, he focused on serving the state of New Jersey, applying his financial expertise to major economic and regulatory issues and pushing a forward-looking, progressive agenda.

As Senator he sought new federal investments in New Jersey’s transportation network, pursued new safeguards to protect chemical facilities against terrorist attack, introduced legislation to improve access to education and healthcare, fought for stronger environmental policies and led the effort in Congress to crack down on corporate abuse.

In a major victory, the Senate adopted Gov. Corzine’s resolution declaring the need for new safeguards at the nation’s vulnerable chemical plants. He also secured federal funding toward the construction of a second railroad tunnel underneath the Hudson River, long sought by New Jersey’s congressional delegation, and won federal support for a wide variety of community and economic development projects throughout the state of New Jersey.

In 2005, Jon Corzine announced his candidacy for the governorship of New Jersey, promising to bring the same business practices and integrity that helped him run Goldman Sachs to state government. He built his campaign around his comprehensive ethics proposal, revamping the state’s property tax system, building a stronger economy and improving education and healthcare. Jon S. Corzine was sworn in as New Jersey’s 54th governor on Jan. 17, 2006.

For his accomplishments in the fields of finance and government, for his many contributions to the causes of education and national commerce, and for his service to the State of New Jersey and the United States, I ask you, sir, to confer upon The Hon. Jon S. Corzine the degree of Doctor of Engineering, Honoris Causa.
VIRGINIA P. RUESTERHOLZ

From her professional beginnings as a manager at New York Telephone, Virginia P. Ruesterholz ’83 has risen through the ranks to become the president of Verizon Telecom—a $32 billion business that provides communications services to consumers and small businesses.

She is also responsible for transforming Verizon from a “telephone company” into the country’s premier broadband and entertainment provider, thanks to their innovative FiOS Internet and TV services. FiOS provides residential and small-business customers with advanced and innovative broadband and entertainment services that have earned the company numerous citations and awards, including being named No. 4 on the BusinessWeek 50.

Previously, Ruesterholz was president of Verizon Partner Solutions, responsible for Verizon’s wholesale business, including marketing, sales, provisioning and maintenance. In 1993, she was named NYNEX market area vice president and general manager for service delivery and field operations supporting consumer and business customers. After the Bell Atlantic/NYNEX merger, Ruesterholz was named vice president—Complex Installation and Maintenance for Network Services and, later, vice president—Operations Assurance. After the Bell Atlantic/GTE merger, Ruesterholz was named senior vice president of Wholesale Markets and led efforts for approval to enter the long-distance market.

In addition to her bachelor’s degree in chemical engineering from Stevens, she holds a master of science degree in telecommunications from Polytechnic University. She is also a recipient of the prestigious “40 Under 40” award from Crain’s New York Business and was the first recipient of the “Rising Star Award” from the New York Women’s Agenda.

Ruesterholz, along with her husband, Kevin Ruesterholz ’83, is a past co-chair of Stevens’ Edwin A. Stevens Society. She was named a trustee of Stevens Institute of Technology in 2007, and became the chair of the School of Systems & Enterprises Advisory Board in 2008.

For her accomplishments in the field of telecommunications management, for her pioneering and foresight as an executive in high-technology business, and for her significant and ongoing contributions to Stevens Institute of Technology, I ask you, sir, to confer upon Virginia P. Ruesterholz the degree of Doctor of Engineering, Honoris Causa.

CURTIS R. CARLSON

Dr. Curtis R. Carlson became president and CEO of SRI International in December 1998. Previously, he spent more than 20 years with Sarnoff Corporation, a wholly owned SRI subsidiary.

In 1973, Carlson joined RCA Laboratories, which became part of SRI in 1987 as Sarnoff Corporation. As head of Ventures and Licensing at Sarnoff, he helped found more than 12 new companies. He started and helped lead the high-definition television (HDTV) program that became the U.S. standard and in 1997 won an Emmy Award for outstanding technical achievement for Sarnoff. Another team started and led by Carlson won an Emmy for Sarnoff in 2000 for a system that measures broadcast image quality. In 2007, Carlson was named chairman of Sarnoff’s Board of Directors.

He has been on numerous public and private boards, including Nuance Communications (computer speech recognition), Pyramid Vision (computer vision), Sensar (iris biometric identification) and Sarif (LCD displays). He is a member of General Motors’ Science and Technology Advisory Board and serves as co-chairman of the Scientific Advisory Board of the Singapore National Research Foundation.

In 2007, Carlson was given the Medal of Excellence Award for Alumni Lifetime Achievement by Rutgers University’s School of Engineering. Also in 2007, he was given the Herbert F. Taylor Alumni Award for Distinguished Service by Worcester Polytechnic Institute (WPI). In 2006, he won the Otto Schade Prize for Display Performance and Image Quality from the Society for Information Display with Dr. Roger Cohen. In 2002, he received the Dr. Robert H. Goddard Award from WPI for his professional achievements. Carlson was a visiting distinguished scientist at the University of Washington in 1998. He is a Kobe ambassador for SRI’s contributions to Kobe, Japan.

Carlson has served on many government task forces, including the Air Force Scientific Advisory Board, the U.S. Army Research Laboratory Technical Assessment Board and the Defense Science Board task force on bio-chemical defense. He was a member of the original team that helped create the Army’s Federated Laboratories. He was a founding member of the National Information Display Laboratory (NIDL) at Sarnoff, a new model for government-industry technology development and commercialization, which grew into the National Technology Alliance.

Carlson has published or presented more than 50 technical publications and holds fundamental patents in the fields of image quality, image coding and computer vision. He has written a book with William Wilmot called Innovation: The Five Disciplines for Creating What Customers Want, published in 2006 by Crown Publishing Group, a division of Random House. Innovation describes how SRI’s unique process for innovation can be applied to all types of commercial and nonprofit enterprises, including the government.

Carlson received his bachelor of science degree in physics from WPI and was named in Who’s Who Among Students. His master of science degree and doctoral degree in atmospheric physics are from Rutgers University. In 2006, he received an honorary doctor of science degree from WPI.

For his accomplishments in the fields of technology and business, for his dedicated entrepreneurship in the creation of new and disruptive products and intellectual property, and for his significant work contributing to the security and defense of the United States, I ask you, sir, to confer upon Dr. Curtis R. Carlson the degree of Doctor of Engineering, Honoris Causa.
The Stevens Indicator

Alumni Business Directory (continued on p.56)

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Old Guard

An important Stevens initiative to nurture future generations of engineers and scientists and better educate all students took center stage at the Old Guard Luncheon this past May at Stevens.

Beth McGrath, director of Stevens’ Center for Innovation in Engineering and Science Education (CIESE) and the luncheon’s guest speaker, provided her audience with both the history of and an update on the work of CIESE, which provides teacher training and curriculum development from kindergarten through college level, with the mission of improving the teaching and learning of science, technology, engineering and mathematics, or the STEM subjects. CIESE uses a variety of approaches, including Internet-based activities and other innovative techniques to capture students’ interest and make math, science and engineering come to life.

Marking its 20th anniversary year in 2008, CIESE’s reach has been vast and impressive. Since 1988, CIESE programs and activities have reached about 19,000 K-12 educators across the world, and through their work, about 9 million students. Grants for these CIESE programs have totaled more than $22 million, much of that from the federal government and some from private companies, such as Verizon.

Stevens President Hal Raveché and Stevens Professor Edward Friedman, Hon. M. Eng.’83, launched CIESE in 1988 “to leverage Stevens expertise to create the next generation of innovators,” McGrath said, and to improve K-12 science and mathematics education through the use of technology, including specific math software at that time.

In the early days of CIESE, computer software was the main technology tool, but in more recent years, CIESE focused on the use of Internet-based tools to liven up STEM classes. Students use real-time data; participate in “tele collaborative” projects, through which they share a project with another class from another town or country, via the Internet; and do student publishing, which gives students the chance to publish their work on the Internet, to share with their faraway peers.

Jason Sayres ’95, a curriculum and professional development specialist with CIESE, spoke about a program that he runs, the International Boiling Project. Students from the United States, Iran, France, Singapore and Bolivia boil water and compare the variables that affect its boiling point in their classroom, including factors such as elevation and room temperature. Students post their results online but also have an online discussion area where they can post questions and talk to each other. CIESE has a similar project in human genetics, through which students compare things such as their earlobes or incidences of color blindness. In all, some 35 countries participate in CIESE’s online programs.

McGrath also discussed a fairly new CIESE initiative, known as Engineering Our Future New Jersey. The goal is to ensure that all New Jersey students, from elementary school through high school, experience engineering as a “core and integral part of their K-12 education, with a focus on innovation.”

“We’re surrounded by technology,” McGrath said. “We should know how it works.”

While engineering-related activities are often part of an after school activity, CIESE is trying to raise awareness of engineering earlier in the educational process, so students are exposed to engineering early on right in the classroom and recognize that careers in this field do exist. K-12 engineering in the schools is important because the technical workforce in this country needs more engineers and scientists, McGrath said. Research has also shown
that including engineering in the curriculum improves science learning and technological literacy, according to CIIESE.

A major goal of CIIESE right now is also to push for a new science standard, specifically “innovation, using design and engineering” to be included in New Jersey’s Core Curriculum Standards. The fourth, eighth and 12th grade standards are scheduled to be revised in 2009, and McGrath asked for alumni help in promoting this proposed engineering standard.

“Getting engineering in the K-12 curriculum is a heavy lift,” she acknowledged, due in part to an already busy academic school day for many New Jersey students.

But CIIESE continues its quest, with a goal of training 2,000 teachers in New Jersey in “exemplary K-12 engineering curriculum.” Already, as of May 2008, it had helped to train 1,600 teachers.

CIIESE has propelled to the national spotlight in recent years, as McGrath recently gave an invited talk to the National Academy of Engineering in Washington, DC.

Dr. Emil Neu ’55, president of the Old Guard, thanked McGrath and Sayres for their presentation and urged alumni support for CIIESE.

—Beth Kissinger
Baltimore Club

The Baltimore Club visited the National Cryptologic Museum in May 2008. This museum is the National Security Agency’s principal gateway to the public. It shares the nation’s, as well as NSA’s, cryptologic legacy and place in world history. Located adjacent to NSA headquarters, Fort George G. Meade, Maryland, the Museum collection contains thousands of artifacts that collectively serve to sustain the history of the cryptologic profession.

The club was fortunate to be granted a tour by longtime NSA employee Patrick D. Weadon. Not only was the group schooled and entertained on the finer details of cryptology but we were also very surprised to hear that a Stevens student played an important code-breaking role in World War II. Commander Joseph Rochefort and his staff were largely responsible for cracking Japanese code that contained information as to when the Japanese would strike Midway. Rochefort relayed this information to his admiral, and the allies were able to preemptively strike.

Dawn Madak ’89 President

The Baltimore Club visited the National Cryptologic Museum at Fort Meade, Maryland, and nearby National Vigilance Park, whose centerpiece is a C-130 aircraft, shown at left. The aircraft has been refurbished to resemble the reconnaissance-configured C-130A, which was downed by Soviet fighters over Soviet Armenia on Sept. 2, 1958. Attending the tour, from left, were Clifford Sayre, M.S. ’50, Denise Bulick Cantwell ’93, Howard Byron ’57, Dawn Madak ’89, Dan Bachenheimer ’85, Eva Bachenheimer and Rebecca Manis, M.Eng. ’02.

Connecticut Club

Members of the Connecticut Club took in some mid-summer baseball this July, when they gathered to watch the Bridgeport Bluefish take on the Camden River Sharks at The Ballpark at Harbor Yard in Bridgeport, CT. Here, alumni and guests enjoy a picnic lunch before the game.
The Stevens Metropolitan Club held its annual meeting at Stevens in June, when members presented the Institute with the club’s yearly donation. Presenting the check to Stevens Alumni Association Executive Director Anita Lang is A. Joseph Schneider ’46, SMC treasurer, as Herb Kimmich ’57 looks on.

The SMC welcomed Stevens Associate Dean of Engineering and Science Dr. Keith Sheppard, Hon. M.Eng. ’97, to its June meeting, as Sheppard discussed the new green engineering minor and other exciting new academic offerings at Stevens.

The San Diego Club held a “Meet and Greet Night” in July at the Rock Bottom Restaurant and Brewery in La Jolla, CA. Enjoying the evening, clockwise from front left, were Marina Zielinski, M.S. ’91, Tom Schmidt ’68, Sue Bradham ’91, Ralph Nebiker ’66, Dave Kirschen ’72, Ron Rosenfield, M.Eng. ’70, Rob Keck ’60, Elizabeth Sjokvist, Carlos Herrera ’94 and Francilia Herrera. The club plans to hold more fun events in the near future.
**Fishing Club**

The Stevens Alumni Association Fishing Club scheduled two fishing trips this past May. On May 8, Doc Ardrey ’60, Dick Magee ’63, Bill McShea ’68 and Stevens Research Professor Washington Braida chartered a striper trip with Al Ristori, who writes a fishing column for *The Star-Ledger* of Newark, N.J. After netting live bunker over in Staten Island, N.Y., Al quickly located the stripers, and we had four into the boat within the first half hour. The largest, 37.5 inches, was landed by Professor Braida. Then the blues arrived, and we spent the rest of the day landing and losing bluefish. We probably went through 80 hooks and released many of the blues.

On May 28, 14 alumni, faculty, staff and friends chartered the *Rosie R* for stripers. The weather was not the best, with wind, rain and high seas as we left the inlet. Unfortunately, several members got seasick. We could not locate stripers and were forced to target bluefish. Approximately 30 were boated. (We had caught over 75 on the spring trip.) Emil Stefanacci ’85 was once again high man, while Gerry Ferrara ’76 won the pool for the largest fish. Another trip is scheduled for the fall of 2008. If you are interested in becoming a member of the club, contact Dick Magee at rsmagee@rcn.com.

Dick Magee ’63
President

Stevens Professor Washington Braida landed the largest striper—at 37.5 inches—during the Fishing Club’s trip on May 8. Admiring Dr. Braida’s catch is Al Ristori, who writes the fishing column for *The Star-Ledger* of Newark, N.J.

Bill McShea ’68 and Dick Magee ’63 show off their catches during the May 8 New Jersey fishing trip.

Attending the Fishing Club’s trip aboard the *Rosie R* on May 28, from left, were Gerry Ferrara ’76, Emil Stefanacci ’85, Ron Roman ’95 and Tony Cusanelli ’70. Emil landed the most bluefish, while Gerry caught the largest that day.
The West Coast Florida Club came out to cheer on the Stevens baseball team in March, when the team competed against Fitchburg State College in the Port Charlotte Invitational at North Charlotte Regional Park in Port Charlotte, Fla. Pictured from left are Bill Graf '50, Bruce Snyder '51, Cynthia Snyder, Harriet Baarck, Bill Baarck '52, Clare Landmann and Don Landmann '51.

The Stevens Ducks pose for their portrait at the Port Charlotte Invitational in Port Charlotte, Fla., this past March.

Attending the North Carolina Club’s meeting last May in Raleigh, NC, were: seated, Henry Kopp ’55, Ed Klaas ’57, Clayton Rogers ’46 and John Gude ’60. Standing: Herb Fischer ’51, George King ’65, Mike Kosusko ’77, Lou Shook ’48 and Nick Rose ’45.
Manhattan alumni were treated to an evening of Beethoven, Tchaikovsky and fireworks during a free concert this July on Central Park’s Great Lawn. Displaying the Stevens flag, from left, are Dragan Suric, M.S. ’00, Nora O’Brien, Simon Franceschi and Peter Dooher ‘97. Below, Nora O’Brien and Dragan Suric, M.S. ’00, enjoy a picnic dinner with the concert.

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Graduate Log

Dr. Glen M. Atlas ’82, an adjunct professor of chemical, biomedical and materials engineering at Stevens, is an associate professor in the Department of Anesthesiology at the University of Medicine and Dentistry of New Jersey and an adjunct member of the graduate faculty of Rutgers University’s Department of Biomedical Engineering. He received his medical degree from the Hahnemann University School of Medicine, Philadelphia, in 1989, and an M.Sc. degree through a joint program between Rutgers and UMDNJ in 1985. Rodney Roberts, M.S. ’04, reports that he is an adjunct faculty member in computer information systems at Lehigh Carbon Community College, Schnecksville, PA. He lives in Andreas, PA, and can be reached at r.roberts@computer.org. Shobi Sivadasan, M.Eng. ’06, is program manager of Stevens’ Systems Design and Operational Effectiveness (SDOE) program. She lives in Sayreville, NJ, and can be reached at shobi.sivadasan@stevens.edu.

Among other work-related updates received by the Alumni Office, Joseph Tooma, M.S. ’96, reports that he is the owner and operator of JTC Associates, a general contracting business based in Brooklyn, NY. E-mail him at jtooma@jtcassoc.com. Jing Pu, M.Eng. ’03, M.S. ’06, a Hoboken resident, is working as database administrator for Gradham Windham in New York City. Established in 1806, Graham Windham is the nation’s oldest non-sectarian childcare agency. Jing Pu can be reached at pujing@hotmail.com. Nicholas M. Martyak, Ph.D. ’91, is a principal scientist for Taminco in King of Prussia, PA. He and his wife, Maria, live in Doylestown, PA, and have two children, ages 21 and 19. He can be reached at n.martyak@att.net. Joan Michaels Fracalossi, M.S. ’94, is the owner of AmRamp of Eastern NC, in Leland, NC (americanramp.com). Joan can be reached at joanfrac@yahoo.com. Kathryn M. Taylor, M.S. ’96, lives in Charlotte, NC, and works for AT&T. She can be reached via e-mail at rstkm@windstream.net. Jill E. Mohan, M.S. ’03, reports that she is working as a technical editor for Ennovex Solutions, Inc., of Herndon, VA. She and her husband, Sandeep Mohan, M.S. ’03, live in Ashburn, VA, and have a daughter, Anjali Katherine, who was born in March 2005. She can be reached at jillemo@gmail.com. Parthiv Brahmbhatt, M.S. ’05, is a project engineer for the Clark Construction Group, LLC, Bethesda, MD, and lives in Falls Church, VA. He can be e-mailed at parthib@hotmail.com. Mathew Kahane, M.S. ’06, is working as a project manager for SI International, a provider of information technology and network solutions primarily to the U.S. federal government. He can be reached by e-mail at mkahane@gmail.com. Mark Mirabito, M.Eng. ’02, is a project developer for Tamarack Energy, Inc., Essex, CT, and resides in Fairfield, CT. He can be e-mailed at mmirabito@tamarackenergy.com. David Gasson, M.S. ’05, is a project manager for REDCO Engineering & Construction Corp., Westfield, NJ, and recently moved to a new home address in Westfield. Savithri Ramu, M.S. ’07, is an IT analyst for Citigroup Global Markets Inc., New York, NY, and has a new home address in Jersey City, NJ. He can be reached via e-mail at savi3.ramu@gmail.com. Living in Valrico, FL, Carlos R. Cruz, E.M.T.M. ’02, is a lead network engineering manager for AT&T in Tampa, FL, and can be e-mailed at crcruz@att.com. Carlos and his wife, Evelyn, have two daughters. George H. Herc, M.Eng. ’06, is a supervisory engineer at the U.S. Army’s Picatinny Arsenal facility; he can be reached by e-mail at george.h.herc@us.army.mil. Dr. Frank P. Hollinger, M.S. ’89, is the CEO of Fresh Directions Consulting, LLC, in Wayne, PA, where he and his wife, Susan, live with their two children.

Eun Hee Kang, M.Eng. ’02, Ph.D. ’08, left, celebrates with her husband and daughter at a reception before the Provost’s Banquet this past May. Dr. Kang earned a Ph.D. in chemical biology and won the Outstanding Teaching Assistant Award for the Department of Chemistry and Chemical Biology.

Jason L. Cook, Ph.D. ’08, and his wife, Lisa, are all smiles after Jason received the Outstanding Dissertation Award for Research from Stevens’ School of Systems and Enterprises at the Provost’s Banquet in May. He earned his Ph.D. in systems engineering.
Several Graduate School alumni have informed us that they are living overseas. **Merih C. Sengonul, Ph.D. ’06**, informed the Alumni Office in December 2007 that he is living in Ankara, Turkey. He can be reached via e-mail at merihsengonul@gmail.com. **Kevin Bohan, M.S. ’96**, said in January that he is living in London, England, where he is working for Diageo (diageo.com). Bohan received a master's degree in psychology from Montclair State University in 1994. E-mail him at kevin.bohan@alumni.stevens.edu. **Dionysios S. Manessis, M.S. ’92, Ph.D. ’97**, (dionysios.manessis@izm.fraunhofer.de) has moved from Greece to Berlin, Germany, where he is a principal technology scientist for the Fraunhofer Institute for Reliability and Microintegration IZM and works with the Research Center for Microperipheral Technologies at the Technical University Berlin. Dr. **Zin-Eddine Dadach, M.Eng. ’84**, is living with his wife and two daughters in Abu Dhabi, United Arab Emirates, where he is a lecturer at the Higher Colleges of Technology. He can be reached at zdadach@hotmail.com.

The Big Apple is home for several graduates. **Kenneth M. Lake, M.Eng. ’06**, has moved within New York City to a new apartment on East 22nd Street. **Kelly Susanne Tighe, M.S. ’07**, moved from Hoboken to West 21st Street in New York City. **Peter C. Ianos, M.S. ’07**, moved from Morris Plains, NJ, to East 80th Street in the city.

Several alumni reported changes of address within New Jersey. **Bill Truran, Ph.D. ’01**, has moved from Sparta to Hamburg, and **Edward Miller, M.S. ’52**, from Elizabeth to West Orange. **Richard H. Hock, M.Eng. ’68**, went from Landing to Lake Hopatcong. **James Desanti, M.S. ’05**, moved to a new address in Hoboken. **Jaehoon Yun, M.S. ’06**, moved from Hoboken to Palisades Park, NJ. **Gil Velez, M.S. ’07**, moved to a new address in Morris Plains.

Other alumni have reported new addresses as well. **Valentine J. Fischer, M.S. ’57**, formerly of Katonah, NY, reports that he and his wife, Betty, relocated last year to Wilmington, NC. **La Verne Hotchkiss, M.Eng. ’67**, retired from Bell Labs and is living in Rossville, GA. He can be reached by e-mail at vernhotch@comcast.net. **David Ladd, M.S. ’71**, is in Woodside, CA. **Laurence J. Latour, Ph.D. ’85**, is located in Bangor, ME. **Martha J.E. Foley, M.S. ’00, Ph.D. ’05, M.T.M. ’07**, has moved from Hawthorne, NJ, to Fairfax Station, VA. **Judy L. Cuddy, M.S. ’04**, has moved to Middletown, RI, and works for Roger Williams University, in Bristol, RI. **Frank Leonards, M.S. ’01**, is in Doylestown, PA; he works as a system test engineer for Aviom Inc., West Chester, PA. He and his wife, Donna, have three daughters. **Michael William Foy, M.S. ’03**, has moved within Pennsylvania from Exton to Chester Springs. **Sucheta Venkatraman, M.S. ’05**, has relocated to Allen, TX, from Dumont, NJ.

We’ve heard wedding bells for several Graduate School alumni. **David Missig, M.S. ’05**, and Lori Marie Petillo were married on Sept. 15, 2007, in Marlboro, NJ. He holds a bachelor’s in environmental engineering from the University of Dayton and is an associate engineer at CH2M HILL. A Villanova University alumna, she is a vice president.
at Van Kampen Investments. The couple honey-mooned in Hawaii and reside in Hoboken. Joanna P. Freddo, E.M.T.M. ’03, married Juan Espada in July 2007, and the couple lives in Matawan, NJ. She is staff director of the Federal Reserve Bank of New York in its regional office in East Rutherford, NJ.

OBITUARIES

William M. Franks, M.S. ’51
William Maurice Franks of Decatur, GA, a World War II veteran and industrial chemist for 40 years, passed away on June 26, 2007. He was 87.

Mr. Franks grew up on Long Island, NY, graduated from Columbia University and Stevens, and served in the Army Air Corps as a pilot of B-24 aircraft in Italy.

Following his career, he served in the International Service Corp with assignments around the globe, including Korea, Brazil, Pakistan, Mexico and Sri Lanka.

He is survived by his wife of 65 years, Allene; five children, William A. of Wells, ME, Dona Carol Farishta of Greenfield, MA, Douglas of Kulpsville, PA, Dr. Lynn Franks Ranew of Atlanta, and Leslie Franks Cusack of Venice, CA; 17 grandchildren; and 14 great-grandchildren.

Milton Maxwell, M.S. ’51
Milton Maxwell of Livingston, NJ, a mechanical and electrical engineer who worked for Colgate Palmolive in Jersey City, NJ, for many years, passed away on July 23, 2007, at home. He was 84.

Mr. Maxwell was a resident of Livingston for 46 years, and worked for Colgate Palmolive for 37 years before retiring in 1988.

He earned his bachelor's degree from the former Newark College of Engineering in 1944, and was a Licensed Professional Engineer. He was an Army veteran of World War II.

He is survived by his wife of 59 years, Paula; two children, Susan and Stephen; and two grandchildren.

John S. Dyer, Jr., M.S. ’56
John Spiers Dyer, Jr., a chemist and industrial hygienist, died at his home in Brookside, Mendham Township, NJ, on June 16, 2007. He was 85.

Mr. Dyer was a chemist and research manager for Keuffel & Esser Co., of Morristown, NJ, for 25 years. He also worked as an industrial hygienist for the Veterans Administration Hospital in Lyons, NJ, for six years, before retiring in 1993. He earned a bachelor's degree from Upsala College before receiving his master's in industrial engineering from Stevens.

Born in Glasgow, Scotland, Mr. Dyer came to the United States in 1934 and lived in North Arlington, NJ, and Lakeville, CT, before moving to Mendham in 1964. He belonged to the Masonic Lodge Montgomery No. 13 in Lakeville.

He served in the Navy during World War II, attaining the rank of Pharmacist's Mate 1st Class. He received one of the highest grades on record during training at the San Diego Navy Hospital, and was top of his class there.

Mr. Dyer is survived by his wife of 55 years, Gloria; a son, J. Scott of Pleasantville, NJ; a daughter, Robin A. Dyer of Mendham; and four grandchildren.

Paul F. Fabio, M.S. ’58
Paul Frank Fabio of Mooresville, NC, an organic research chemist at the American Cyanamid Company for over four decades, passed away on July 20, 2007. He was 79.

Mr. Fabio worked in the Lederle Laboratories Division of American Cyanamid in Pearl River, NY, for 42 years. He earned a bachelor's degree at the City College of New York before receiving his master's in chemistry from Stevens.

He was born in Elmhurst, NY, and raised in the Fordham section of the Bronx, NY. He married his wife, Nan, in 1957, and the couple raised four sons in Pearl River, before moving to Lake Norman in Mooresville in 1994.

“Paul was proud of his Sicilian heritage,” The Record of Hackensack, NJ, reported, “and had the opportunity a number of times to visit the birthplaces of his parents … in Galati Mamertino and Corleone, Sicily.”

Mr. Fabio was a member of the American Chemical Society, and the Knights of Columbus, and a former president of the American Rhododendron Society, Tappan Zee Chapter. He enjoyed gardening and was an active member of the garden club of the Lederle Employee Recreation Association. He had a love of classical music, especially Beethoven, which he encouraged his children to enjoy, according to The Record.

He is survived by his wife, Nan; four sons, Gregory, James, Timothy and Paul; a sister, Josephine Schinasi; and seven grandchildren.

Charles K. Ridge, M.S. ’58
Charles Kennedy Ridge of Essex, MA, a mathematics and science teacher and entrepreneur, passed away on Sept. 3, 2007. He was 89.

Mr. Ridge taught math, general science and physics at the former Newark College of Engineering, Verona Junior High School and the
Newark Academy, while earning his master’s degree in industrial engineering from Stevens. For nearly two decades, he was president of ElectroLift, Inc., Clifton, NJ, which designed custom hoists for industrial applications. He received a bachelor’s degree from Lafayette College.

After serving in the Army Air Forces in India and the Mariana Islands during World War II, Mr. Ridge and his wife, Margaret, married in 1946 and settled in Verona and Montclair, NJ, where they raised four children.

Mr. Ridge loved sailing, flying, gardening, photography and woodworking and enjoyed sharing his knowledge with others, especially his children and grandchildren, through teaching. He taught classes for the Boy Scouts, Girl Scouts, Kiwanis and United States Power Squadron. He also volunteered at the U.S. Coast Guard Auxiliary, the First Congregational Church of Essex, the Mid-Atlantic Pilots Association, the Verona Presbyterian Church and the Upper Montclair Presbyterian Church. He served as commissioner of the Essex Department of Public Works for many years.

He is survived by his wife, Margaret; three children, William, Betsy Ridge Madsen and Sarah R. Cushin; and nine grandchildren.

Warren R. Fryer, M.S. ’59

Warren R. Fryer of Manhattan, NY, an electrical engineer who received several patents and, in retirement, worked with artificial heart pioneer Dr. Robert Jarvik, died on May 5, 2007. He was 80.

After Mr. Fryer retired in 1997 as chief engineer for Calculagraph/Control Products, East Hanover, NJ, he worked as executive assistant to Dr. Jarvik at Jarvik Heart, Inc. He had previously worked as an electrical engineer for Data Trends in Parsippany, NJ. During his career, he developed four patents related to digital and analog telephony and a remote electronic switch.

Mr. Fryer himself was a heart transplant patient. According to The Star Ledger, of Newark, NJ, “His family is grateful to the unknown donor who, in 2002, provided Warren with a transplanted heart. The last five years of his life were a gift from the donor. Warren was an avid reader and enjoyed classical music, especially opera. He will be remembered for his kindness, generosity and devotion to his family.”

He served in the Navy and Air Force during World War II and the Korean Conflict. The GI bill enabled him to earn a bachelor’s degree in mechanical engineering and master’s degrees in electrical engineering and computer science.

Survivors include his partner of 30 years, George Foltrauer; three daughters, Christine, Janet and Lynn Fryer; a brother, Russell; two grandchildren; and two nieces.

Anthony S. Barbera, M.S. ’60

Anthony Salvatore Barbera of Spring Hill, FL, a design engineer for Westinghouse for many years, died on May 19, 2007. He was 76.

A New Jersey resident most of his life, Mr. Barbera was born in Hoboken, grew up in Jersey City, and lived in Rutherford, NJ, with his wife, Evelyn, and five children for 30 years before moving to Basking Ridge and later Florida. He earned a bachelor’s degree from New Jersey Institute of Technology in 1953 before earning his master’s in industrial engineering at Stevens.

A former first lieutenant in the Air Force, Mr. Barbera worked for Westinghouse for over 25 years and retired while working for the U.S. Department of Defense.

He is survived by his wife of 48 years, Evelyn; five children, Joseph, Anthony, Arthur, Maryanne Kania and Michele Meinhardt and their spouses; and 11 grandchildren.

Robert F. Royce, M.S. ’61

Robert F. Royce of Powder Springs, GA, a longtime Union Carbide employee who later served as a management consultant, passed away on July 18, 2007. He was 75.

After 30 years with Union Carbide Corporation, Mr. Royce did consulting for Michael Paris Associates in Chicago, and was employed by American Standard Plumbing as director of Customer Service & Distribution. His 40-year career also included work in product/process design.

He earned an undergraduate degree from Fairleigh Dickinson University, served in the Air Force during the Korean War and was active as a Mason. A past master of Lodge of the Temple No. 110 in Jersey City, Mr. Royce earned the 32nd Masonic degree of the Scottish Rite. He was a member of the Peninsula Lodge of Bayonne.

Also active in barbershop singing circles, he was a member of the Barbershop Harmony Society for over 50 years and served the society in various administrative posts; he was also a quartet and chorus singer, a chorus director and a master of ceremonies.

He is survived by his wife, Dobbie; three children, Robert, Jennifer Royce and Susan Ziadja; and two grandsons.
Frank J. Szipszky, Jr., M.Eng. ’68
Frank J. Szipszky of Bailey, CO, formerly of Little Silver, NJ, who enjoyed a long and successful engineering career in the telecommunications industry, died on June 4, 2008. He was 72.
Mr. Szipszky’s 36-year career included work with Bell Laboratories at various locations in New Jersey; the company later evolved into Bellcore. Mr. Szipszky retired as a district manager in 1993. He was a Licensed Professional Engineer.
In 1999, he and his wife, Barbara, and their chocolate lab, Hershey, moved to Bailey, CO, where they settled in their dream home in the mountains. There, Mr. Szipszky used his master carpenter talents to build a “5-star luxury tree house retreat for his nine grandchildren to enjoy,” his family said.
“No mountain home project was too big a challenge, but rather the day’s enjoyment. Frank was an extraordinary man of various talents who touched the lives of many and will be greatly missed by everyone who knew and loved him.”
Born in Newark, N.J., he earned a bachelor’s degree from New Jersey Institute of Technology. Surviving are his wife, Barbara; a daughter, Patricia Faraldi of Barnegat, NJ; two sons, James ’89, and his wife, Dianne ’90 of Ontario, Canada, and Robert and his wife, Patricia, of Newtown Square, PA; two sisters, Joyce Nelson of Boonton, NJ, and Helen Betlow of Readers, PA; and nine grandchildren.

Vera R. Granlund, M.S. ’69, Ph.D. ’75
Vera Raymond Granlund, a University of Virginia professor and former Stevens instructor who was the first woman at Stevens to receive a National Science Foundation grant, died on April 21, 2007, in Charlottesville, VA. She was 81.
After raising a family and going back to school to obtain a Ph.D. in 1975, she moved from Short Hills, NJ, to Charlottesville—where her husband, John, was working at the National Radio Astronomy Observatory—and was hired by the University of Virginia to teach mathematics to engineering students. She developed a course for students preparing to take the engineering curriculum, and also taught the basic courses all engineering students took. She enjoyed 19 years at UVA, and retired as a professor emeritus and a member of the Raven Society in 1997.
In the late 1960s, after raising three children, Dr. Granlund had earned a bachelor’s degree, summa cum laude, from Drew University in 1967. While earning her master’s and doctorate at Stevens, she worked with exceptional high school seniors during summers at the Institute and served as a teaching assistant handling recitations.
Born in Bronxville, NY, she attended public schools and Rye Country Day School and was the first girl to be on the high school chess team. She also played piano, violin and trombone and performed in the drum majorette corps.
In her retirement, Dr. Granlund continued to tutor students. In addition to mathematics, she enjoyed teaching many needle arts: sewing, knitting, smocking and tatting. She was an active member of a local guild and traveled to many conventions and seminars.
She is survived by three daughters, Vera Dreyer of Belmont, VA, Kristina Granlund-Moyer of Portola Valley, CA, and Zoe Parker of Hopkinton, VA; three sisters, Dorothy Mead, Constance Plunkett and Zoe Youmans; and nine grandchildren. Her husband passed away in 2003.

David H. Klaiman, M.M.S.’72
David H. Klaiman of Somerset, NJ, a corporate executive and consultant, passed away on June 23, 2007. He was 79.
Mr. Klaiman served as vice president of manufacturing for Lehigh Valley Ind., Inc. As a consultant, he provided financial service and advice to small businesses. He earned a bachelor’s degree from MIT in 1949.
He was active in volunteer projects and was an avid traveler and sports enthusiast. “His analytical and practical approach to life, combined with boundless love and devotion to family and friends, will be greatly missed,” his family said.
Mr. Klaiman’s survivors include his wife, Anita; three daughters, Michelle Rubin, Carolyn Racusin and Valerie Fleischer; and eight grandchildren.

Gerald B. Fay, Jr., M.Eng. ’91
Gerald B. Fay, Jr., of Piscataway, NJ, a retired AT&T employee and high school teacher, passed away on May 23, 2007. He was 54.
Mr. Fay worked for AT&T in Somerset for 21 years. He also taught communications at Union Catholic High School and at Bishop George W. Ahr High School. He received a bachelor’s degree from Seton Hall University.
He was a communicant of Our Lady of Fatima Roman Catholic Church, Piscataway, where he served as a lector and a music minister and guitar player with the parish’s folk group.
Mr. Fay was born in Newark, NJ, and lived in Plainsboro, NJ, before moving to Piscataway.
He is survived by his wife, Rose; two daughters,
Katherine A. and Christina R.; two sons, James and Joseph; his mother, Phyllis; and a brother, Paul.

Roger H. Garrett, M.S. '92
The Alumni Office has learned that Roger H. Garrett of Merchantville, NJ, died on May 31, 2006. He was 57.
He worked as a consultant.
Mr. Garrett earned a bachelor’s degree in computer science from Spring Garden College and a master’s degree in computer science from Stevens.

Pamela Scott Carson, M.S. '00
The Alumni Office has learned Pamela Scott Carson, a systems analyst and a lifelong resident of East Orange, NJ, died on Sept. 9, 2007, a day after her 52nd birthday.
Ms. Scott Carson worked as a systems analyst in the information technology field for many years, including work with Bristol-Myers Squibb.
She earned a bachelor of arts degree from Rutgers University and a master of arts degree from Upsala College. In 2000, she earned a master’s degree in information management from Stevens.
Ms. Scott Carson was a member of the Stevens Alumni Association’s Pharmaceutical Club.
Surviving are her son, Frederick, III; her mother, Blanche Scott; a sister, Robin Scott-Hawkins; her niece, Jaszmine A. Hawkins; and her mother and father-in-law, Frederick and Marie Carson, Sr. Her husband, Frederick Carson, Jr., predeceased her.

Timothy P. Murphy, M.S. '02
The Alumni Office has learned that Timothy Patrick Murphy of Chatham, NJ, an energy specialist and firefighter, died on Sept. 9, 2007. He was 42.
Mr. Murphy had worked as an energy specialist with Wyeth Pharmaceuticals since 1987 and had traveled the world for his work.
He had also served his community as a volunteer firefighter with the Eastchester Fire Department in New York and the Chatham Township Fire Department in New Jersey.
He had a great love of Irish music and had played drums with the Iona College bagpipe band and, later, played with the Kerry Pipers in the Bronx, NY.
Mr. Murphy earned a bachelor’s degree from Iona College and a master’s degree in information management from Stevens.

Born in the Bronx, NY, he grew up in Westchester County, NY.
“He loved his family, helping people and was a great father,” his family said.
Mr. Murphy is survived by three daughters, Meaghan, Kerri Anne and Joanmarie; two sons, Brian and Patrick; his father, Timothy J. Murphy of Spring Lake Heights, NJ; his first cousins, whom he considered his brothers and sisters, Eileen Slattery, Bill Doran, Kathy Clarke, Maureen and Gerry Houlihan and Sean Doran; his godson, Sean Houlihan; and other relatives and good friends.

STAFF
Gertrude Kluender
Gertrude Kluender of North Bergen, NJ, the house mother for Stevens’ Delta Tau Delta fraternity for 38 years, died on Aug. 17, 2008. She was 99.
Mrs. Kluender, who was known as Mrs. K. to the Delt brothers, served as housemother, cook and housekeeper to the fraternity, while her late husband, Fritz, known as Mr. K., was housefather and caretaker of the Delt house and grounds.
Mr. and Mrs. K both started their work with the fraternity in 1931 at the original Delt house, located on the site of the current Williams Library. When the fraternity moved to its present location at 809 Castle Point Terrace in the early 1960s, “Mr. and Mrs. K were right behind the brothers, securing their own apartment on the first floor of the shelter, better known as K’s Apartment to many younger brothers,” according to Delt alumnus Peter J. Bakarich ’04.
“The K’s were an integral part of the fraternity and were looked upon more as family than as the house manager and cook,” Bakarich said. “Mr. and Mrs. K really were the fraternity’s parents, making sure that the boys were up for school and that they were properly fed while living in a clean and safe environment.”

When Rho Chapter celebrated its 125th anniversary in 2001, Mrs. K joined the festivities to see the many brothers of Delta Tau Delta whom she always called “my boys in the Delt House,” Bakarich said.
“It is fair to say that she played a large role in the lives of many Delt brothers during her 38 years with the Chapter,” he said. “All of us who knew her will truly miss her.”

Mrs. Kluender is survived by her daughter, Trudy Bartels.
Alumni Record Update Form

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Name ________________________________ Class __________________

Home Address ____________________________________________________________

City ____________________________ State ________________ Zip Code _____________

Home Telephone (____)__________________________

Home Fax (____)__________________________ Home E-mail _______________________

Business Name _______________________________

Business Title _______________________________

Business Address __________________________________________________________

City ____________________________ State ________________ Zip Code _____________

Business Telephone (____)__________________________

Business Fax (____)__________________________ Business E-mail _______________________

Preferred E-mail _______________________________ □ Retired □ Unemployed

Date of Birth ____________________________ Marital Status __________________________

Spouse Name (include Maiden) ________________________________ □ Alumna/alumnus?

Children (name/age/sex) ______________________________________________________

Fraternity/Sorority __________________________________________________________________________

Honor Societies __________________________________________________________________________

Activities/Clubs __________________________________________________________________________

Sports __________________________________________________________________________
Statistics

Vital

Marriages
—Anish B. Nihalani, M.D. ’96 to Shubhamvada Nihalani, M.D., on April 22, 2008
—Hassan Kazmi ’03 to Shernbroko Rivzi on July 22, 2008.
—Joseph A. Speranza ’03 to Stephanie A. Weaver on June 16, 2008.

New Arrivals
—To Mr. and Mrs. David J. Alfinno ’95, a son, Lucas, on Jan. 16, 2008
—To Laura and Craig A. Polk ’00, a daughter, Cecilia Rose, on Aug. 29, 2008.
—To Corinne and Jeffrey R. Houser ’03, a son, Trent Charles, on May 19, 2008.

Obituaries
F.W. Hay, ex ’27 5/27/06
N. Y. Kanzaki ’29 10/2/07
G.J. Oravetz, ex ’33 7/13/08
R.E. Hansen ’35 3/15/98
J.L. Bauer ’37 12/6/07
H.L. Braun ’38 7/8/08
C.P. Dickhoff, ex ’38 5/9/06
J. Engelsted ’38 7/21/08
S. Epstein ’38 7/11/06
P.A. Wolff ’38 9/16/08
J.F. Garrey ’39 4/22/04
D.W. Gathman ’39 3/11/08
I.M. Sarlat ’39 10/21/07
C.W. Bristol, Jr. ’40 7/8/08
J.B. Gray ’40 4/30/06
R.L. Zeliff, Jr. ’40 2/2/08
R.F. Becker ’41 4/12/08
H.P. Dupre ’41 7/6/08
E.J. Israel ’41 2/13/08
F.D. Lethbridge, ex ’41 4/17/08
F.A. Martin ’41 10/2/08
J.J. Scavullo ’41 1/17/08
A.R. Schaefer ’41 11/15/07
P.J. Leslie ’42 6/26/08
L.J. Low ’42 1/3/08
R.H. Christensen ’43 5/25/03
B.F. Kinkirk ’43 4/1/08
T.J. Lenihan ’43 4/6/00
T.E. Schober ’43 9/6/08
P. Wilton ’43 1/30/08
R.A. Wolf ’43 7/1/05
E.E. Field ’44 8/15/07
W.V. Knopp ’44 7/4/07
D.A. Lamb ’44 4/4/08
H.H. Robinson, Jr. ’44 4/14/08
J.P. Shook, Jr. ’44 4/3/08
S.A. Hara, Jr. ’45 5/28/08
R. Mettemann ’45 3/12/08
H. Swersky ’45 1/28/08
M.D. Widenor ’45 11/23/07

J.K. Lippincott ’46 4/10/08
E.H. Pauli ’46 8/19/08
D.E. Reimann ’46 3/19/08
R.W. Staehle ’46 5/10/08
J.E. Krantz ’47 9/3/08
W.M. Payne ’47 6/17/08
R.G. Sampson ’47 3/18/08
L.A. Trygg ’47 6/25/08
T.J. Murphy ’48 11/21/05
L.B. Glaser ’49 12/3/07
D. Haring ’49 12/2/07
J.A. Holl ‘49 5/4/08
W.F. Howind ’49 2/5/08
J. Kopin ’49 5/3/08
A.J. Mathews ’49 8/21/08
C.E. Ratcliffe ’49 7/9/04
J.H. Seely ’49 5/28/08
R.M. Turnamian ’49 11/9/07
T.I. Arnold ’50 5/28/06
E.J. Caputo, Jr. ’50 10/22/07
D.H. Farrell ’50 5/15/08
E.D. Ferency ’50 5/11/08
R.O. Gardner ’50 3/30/08
W.O. Grube ’50 12/23/07
F.W. Lankerking ’50 8/2/05
H.S. Littleboy ’50 4/26/08
G.R. Muraugh ’50 3/10/08
J.P. Akrep ’51 11/2/07
E.J. Cann ’51 4/21/08
R.V.C. Dickinson ’51 5/28/08
T.P. Flores ’51 5/15/08
W.B. Peters ’51 5/10/08
E.P. Schmid ’51 12/3/07
J.S. Tarteras ’51 9/23/07
A.A. Wiggen ’51 1/22/08
T.M. Wooster ’51 12/24/07
H.W. Guendel ’52 2/20/08
R. Gullin ’52 11/2/07
T.J. McGuire ’52 1/31/08
O.I. Price ’52 6/3/08
L.W. Kepler ’53 1/20/07
R.T. McIntyre ’53 5/9/08
J.B. Rapka ’53 12/30/07
J. Dmitzak ’55 7/18/08
E.G. Eglar ’55 8/14/07
J.P. O’Brien ’55 3/8/06
J. Wodziak ’56 11/11/07
R.W. Blohm ’57 1/14/08
K.G. Adams ’58 1/10/08
D.J. Twomey ’58 9/2/07
E.B. Andersen ’60 8/13/08
W.L. Naka ‘60 9/15/06
J.A. Lenge ’60 8/25/08
W. Teves ’61 11/21/07
T.S. Middleton ’62 7/22/08
A.A. Bahri ’67 10/22/07
M. Bostermanl ’67 7/9/08
D.P. Reiser ’68 12/29/07
M.C. Slota ’68 7/31/08
D.H. Dietz ’69 1/2/08
R.N. Hunt ’71 11/26/07
S. Polowy Erwentowski ’77

Graduate School
H.W. Angleley, M.Eng. ’41
F.A. Russell, M.S. ’41 5/14/08
O.J. Stephens, II, Hon. M.S. ’45 9/13/08
M.A. Connolly, M.S. ’47 4/5/06
E.G. Band, M.S. ’51 6/4/08
W.M. Franks, M.S. ’51 6/27/07
RJ. Linhardt, M.S. ’51 4/13/05
M. Maxwell, M.S. ’51 7/23/07
G.A. Kiessling, M.S. ’54 8/17/06
R.T. Telford, M.S. ’54 5/9/08
H.C. De Valve, Jr., M.S. ’55 5/6/08
J.S. Dyen, Jr., M.S. ’56 6/16/07
A.E. Siklosi, M.S. ’57 1/13/08
P.F. Fabio, M.S. ’58 7/20/07
C.K. Ridge, M.S. ’58 9/3/07
E.A. Scacchetti, M.S. ’58 12/10/07
D.A. Walsh, M.S. ’58 8/10/08
W.R. Fryer, M.S. ’59 5/5/07
R.G. Roland, M.S. ’59 3/30/08
A.S. Barbera, M.S. ’60 5/19/07
A.F. Kirsch, M.S. ’60 3/13/08
W.R. Huyler, M.S. ’61 6/1/08
R.F. Royce, M.S. ’61 7/18/07
A.A. Young, M.S. ’61 8/9/08
J.W. Hollenberg, M.S. ’62, Ph.D. ’79 3/7/08
F.J. Szipszký, Jr., M.Eng. ’68 6/4/08
V.R. Granlund, M.S. ’69, Ph.D. ’75 4/21/07
S.M. Wu, M.Eng. ’69 8/10/08
D.H. Klaiman, M.M.S. ’72 6/23/07
S.N. Aghili-Kordmahalleh, M.Eng. ’74 8/6/08
S. Ok, M.Eng. ’74 Unknown
G.B. Fay, Jr., M.Eng. ’91 5/23/07
R.H. Garrett, M.S. ’92 5/31/06
P.S. Carson, M.S. ’90 9/9/07
T.P. Murphy, M.S. ’92 9/9/07
R.A. Powell, Ph.D. ’02 6/9/08
K.M. Randolj, M.S. ’03 8/2/07

Former Faculty/Staff
R.S. Barrett 2/2008
Gerrtrud Kluender 8/17/08

+ Obituary in this issue
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