Poly Pioneers

THE WOMEN WHO BROKE THE GENDER BARRIER

Poly students Alice Weltman and Elise C. Stahl set up equipment for an experiment in advanced chemistry in 1941.
Kleiner chair endowed in mechanical engineering

Robert Kleiner and Lisa Kleiner Chanoff, the son and daughter of the late Eugene Kleiner ’48ME ’51IE ’89H/ON, have established a $2.5 million endowed chair at Polytechnic in memory of their father. The search is now underway for an appointee, who will be known as the Eugene Kleiner Distinguished Professor of Innovation in Mechanical Engineering. The chosen candidate will also join other Polytechnic chaired professors as an affiliate of the Othmer Institute for Interdisciplinary Studies.

Kleiner, who died in 2003, co-founded Fairchild Semiconductor in the 1960s, the first company to mass produce semiconductors. In 1999, the U.S. Postal Service issued a commemorative stamp to honor Kleiner and his colleagues, known collectively as the "Fairchild Eight." Kleiner also co-founded one of the world’s leading venture-capital firms, Kleiner Perkins Caufield & Byers, whose roster of funded companies includes Compaq, Sun Microsystems and Amazon.com. A former Polytechnic trustee, he received a Distinguished Alumnus Award and an honorary degree from the University and was named Outstanding Mechanical Engineer of the Century in 1999.

Celebrating 150 Years in Brooklyn

You are cordially invited to join us at our sesquicentennial convocation honoring Brooklyn Poly’s illustrious achievements in engineering and the sciences.

Thursday, September 29, 2005, 1-5 p.m.
Brooklyn Academy of Music
Howard Gilman Opera House
Peter Jay Sharp Building
30 Lafayette Avenue
Brooklyn, New York

For more information and tickets to the event, contact Raina Lamade at 718-260-4016 or rlamade@poly.edu.
The symposium celebrated the 150th anniversary of the University's service educating the engineers who have driven technology forward over the past century and a half.

Poly honors Cerf and Felsen, pioneers in Internet and electromagnetics, at Telecommunications Symposium

Delivering the keynote address at Polytechnic's symposium on *The Future of Telecommunications*, Vinton G. Cerf, widely heralded as one of the "fathers of the Internet," declared the future is not fixed. "Brooklyn Poly will produce the people who will define it," he said. "And I wish the University success for the next 150 years."

The day-long February 11 symposium, sponsored by the Department of Electrical and Computer Engineering, celebrated the 150th anniversary of the University's service educating the engineers who have driven technology forward over the past century and a half.

Department Head H. Jonathan Chao noted in welcoming remarks that Poly graduates have played a major role in creating and implementing the technologies that bring the world closer together. "From the system of cables on the Brooklyn Bridge," he said, "to the fiber optic cables encircling the earth, Poly has been there."

Before the symposium, the University awarded honorary degrees to Cerf and Leopold B. Felsen ’48 ’49 ’50EE, a giant in the field of electromagnetic theory, who served on the Poly faculty for over 40 years. Felsen was recognized for his work as a scientist, researcher and author; Cerf, senior vice president for technology strategy at MCI, was honored for creating the vocabulary of the Internet with his collaborator Robert E. Kahn.

The symposium featured presentations from a number of leaders in the telecommunications industry, including Emmy Award-winner Stephanie Steffek Mitchko ’87EE, vice president for interactive platform development at Cablevision Systems; Ray Martin, vice president of technical strategy at Symbol Technologies; and George Rittenhouse, vice president for wireless research at Lucent Technologies.

(Left) George Rittenhouse of Lucent Technologies spoke to the audience about next-generation mobility, a migration from circuit to packet applications and the procession of voice to data.
(Above) Stephanie Steffek Mitchko ’87EE of Cablevision spoke about a future of integrated television services that combines data, video, music and voice, and the challenges accompanying it.
Poly takes home five medals for advertising

Polytechnic's advertising campaigns recently gained national recognition from the Annual Admissions Advertising Awards. The University won a gold medal for ads for the Management of Technology and Telecommunications in Management (MOT-TIM) graduate programs; a silver medal for the Power of PolyThinking® poster campaign and bronze medals for the undergraduate admissions website, subway posters for Poly's graduate programs and a direct mail piece for the MOT-TIM programs.

The Long Island advertising and interactive marketing firm L.F. O’Connell Associates was commissioned for each advertising campaign. To view an interactive display of the Power of PolyThinking®, visit www.poly.edu/polythinking.

The Admissions Advertising Awards are sponsored by the Admissions Marketing Report, a national publication covering marketing for higher education.

Poly receives $1M for computer security research and education

Polytechnic's Department of Computer and Information Science has received two new grants, totaling more than $1 million, from the National Science Foundation (NSF) to support its research and education programs in computer security. The first grant will fund the design and implementation of a network forensic system to capture and mine data traffic in computer networks. The principal investigator is Professor Nasir Memon, who—with co-PI's Assistant Professor Hervé Brönnimann and Associate Professor Joel Wein—will collaborate on the $750,000, three-year award with colleagues from John Jay College of Criminal Justice.

Memon is also the principal investigator of the second award, a $275,000, two-year grant to fund the development of a Virtual Network Security Laboratory to allow students from other institutions to remotely conduct experiments over the Internet on information assurance. Co-principal investigators are Professor Phyllis Frankl and Assistant Professor Gleb Naumovich.

The two awards further strengthen Polytechnic's research and education in computer security. In 2002, the U.S. National Security Agency designated Polytechnic as a Center of Academic Excellence in Information Assurance Education, the first institution in New York City to receive the designation. The University was the first institution in New York State and one of only 10 in the nation to receive a $3 million, four-year Federal Cyber Service Scholarship for Service Award from the NSF. The award provides scholarships to students pursuing advanced studies in information assurance and computer security. The department also offers specialized graduate and undergraduate certification and fellowship programs in computer security.

Poly table tennis team no. 12 in nation

Polytechnic's table tennis team is ranked 12th in the nation, the National Collegiate Table Tennis Association (NCTTA) announced recently. The Poly team, a member of the NCTTA New York City Division, bested more than 140 participating colleges and universities nationwide to earn its position.

Although the current team is two years old, Poly's affiliation with the sport goes back to Jack Howard '61EE, who, as captain of the American team, led the first Western delegation to set foot in China in 22 years. Headlines in newspapers worldwide called the event “Ping-pong Diplomacy.”

CALLING W2BXK

Poly students and faculty have restarted the Radio Club at Polytechnic with a new call sign, KC2NWR. Former club students or current hams who want to lend support, donate equipment or share stories should contact club adviser Henry Bertoni at hbertoni@poly.edu.
From EE labs to rock n' roll: Christine Ianuzzi leading the ABC of radio technology

Someplace in the dead quiet of space, floats one busy—and noisy—satellite. Signals constantly bouncing off it hit thousands of ABC Radio-owned and affiliated stations coast to coast, allowing Paul Harvey to tell the "rest of the story," Sean Hannity to argue with a more liberal caller, Johnny Holliday to recap last night's game and hit tunes to jam the room.

The woman directing the organized cacophony behind the space-age curtain is Christine Ianuzzi '87EE '94ISE, vice president for broadcasting technology, engineering and operations at ABC Radio Networks. Working out of New York City, Ianuzzi oversees studio operations in that city as well as in D.C., Dallas, Chicago and Los Angeles, delivering content—be it music, news, sports or Paul Harvey—to 60 ABC Radio-owned stations and 4,700 affiliates nationwide.

Although her VP title is impressive and her media environment glamorous, Ianuzzi still thinks of herself as an engineer. Much to her surprise, most people are in awe of that too. "When I tell people I'm an engineer, most react enviously," she says. "Me, I always wanted to be rock star."

The Brooklyn native also wanted to be a doctor when she was young. However, after a year in the pre-med track at a local college, the reality of long hours in training and lack of money for medical school made her rethink her career choice. "Engineering was a good fit for me," she says of her decision to transfer to Poly. "I enjoyed math, was intrigued with science and liked tinkering. I chose electrical engineering because I thought that discipline, with its emphasis on mathematics and analytical skills, was the most promotable in a career, and the most usable and marketable."

Ianuzzi must have been reading the minds of ABC Television executives. One day after walking on stage to accept her diploma, she landed an engineering job at the news and entertainment conglomerate. "I didn't have the professional experience they were looking for," she says. "And I was a woman; there were no women engineers at ABC at the time. But I showed them my notebooks from my EE classes and labs—demonstrated what I knew and what I was capable of doing. That's what got me the job."

Ianuzzi started her career as an aide in the broadcast operations and engineering division. Her division was responsible for designing studies, building mobile units and creating audio, video and satellite systems. As time went on, she began designing systems on her own and quickly rose through the ranks. She designed at the board level—right down to the relays and tubes—something that's not done today. "Today, you buy a box, and it's all done for you," she says. "I really got a chance to use my degree."

In her 13 years at ABC Television, she worked her way up to director, overseeing engineering broadcast systems and maintenance. During that time, she also amped her knowledge of the industry, going back to Poly to earn a master's in information systems and engineering and then on to Baruch College for an MBA. In 2000, she moved to her current position at ABC Radio Networks. In addition to leading and directing the technical goals of the network, she also stays on top of emerging technologies. Her recent successes include converting to a new digital/audio distribution platform and rolling out 4,500 new receivers to owned and affiliated radio stations.

"When I was at Poly, I would have never believed I'd end up in the media industry," she says. "But, with my personality, I wasn't destined for a quiet, programming career."

Perhaps rock star is next on the dial for Ianuzzi.
Poly research ensures health of bridges and tunnels

Adapting the old adage “An ounce of prevention is worth a pound of cure,” Dr. Masoud Ghandehari is leading the interdisciplinary research at Polytechnic to develop tools that will monitor the “health” of aging bridges, pipelines, highways and other structures.

Ghandehari, assistant professor in the Department of Civil Engineering, is quick to point out that the early discovery of signs of aging in civil infrastructures will improve safety and save local governments millions of dollars spent annually in maintenance of bridges and tunnels. “A corollary to this approach is found in the early detection of a medical condition,” he notes. “If a medical malady is diagnosed early, it is often easier to treat and less expensive to cure.”

Working in Polytechnic’s Optical Diagnostics Laboratory, Ghandehari describes his research as “materials health management,” where we bring together teaching of analytical chemistry and materials engineering. He learned early in his career as a practicing engineer in New York City, working on the rehabilitation of aging bridges and tunnels that, in most cases, the sensing and diagnostic tools used for civil infrastructure identify physical damage, but are unable to identify the underlying chemical processes that contribute to infrastructure deterioration. Now his research in developing sensors to directly monitor such chemical processes has attracted the attention of the Port Authority of New York and New Jersey and the natural gas industry.

“We are working with the Port Authority on a number of major initiatives for field implementation of sensing devices in local bridges,” Ghandehari says. In addition, through funding from the natural gas industry, Ghandehari and his students are currently developing sensing systems for detection of subsurface gas leaks. “Long-term sensor durability is an essential requirement for civil infrastructure monitoring,” he explains. “We can make these optical fiber probes to be very robust for long-term applications in the harsh subsurface environments for decades.”

Ghandehari points out that this research has also created opportunities for Poly students to obtain valuable industry internships. The student interns not only contribute to advancing research, but also learn how to function in a professional setting and learn about product development and intellectual property.

Through a grant from the National Science Foundation, two of Ghandehari’s students, Mark Pytel ‘07CE and Honors College scholar Narissa Puran ‘08BMS, will travel to northern Germany to study at the University of Braunschweig. In this collaboration, the students will use the optical diagnostic methodologies developed at Polytechnic, while researchers from Braunschweig will offer their experience as a world leader in materials engineering.

According to Puran, the development of such optical sensing technologies could serve a variety of functions from medicine to material science. “I find the implications of Professor Ghandehari’s work very profound,” she says, “and that is why I plan to continue to be a research student in the Optical Diagnostics Lab during my undergraduate career at Poly.”

Ghandehari attributes the success of his research to the culture of collaboration at Polytechnic. “I have found a high level of expertise in areas that complement and support my research objectives,” he says. “I have also found openness on the part of University experts to span boundaries and work in a cross-disciplinary fashion.”

Dr. Farhad Ansari, head of the Department of Civil and Materials Engineering at the University of Illinois at Chicago, explains that Ghandehari’s research has stretched the state-of-the-art in the application of civil structural health monitoring to the point where it is possible to develop sensors for degradation monitoring of bridges. He adds, “This is an important contribution to the civil infrastructure system of our nation.”
Promise Fund inducts 2005 class of scholars

Newly inducted PROMISE scholar Jaclyn LoBello, second from left, was one of 95 students who pledged their commitment to academic excellence in a special ceremony inducting them into the PROMISE FUND. Jacklyn is pictured with her mother, Joanna, Poly Vice President/Provost Bud Griffis, far left, and Trustee Robert Dalziel '56EE. Now in its 17th year, the PROMISE FUND is Polytechnic's largest scholarship program and supports talented minority and women students of modest income who are largely underrepresented in the sciences and engineering.

17th Annual
PROMISE FUND DINNER
Saluting the life and achievements in engineering of Joseph J. Jacobs '37 '39 '42 H'86

Dinner Chair: Noel G. Watson chairman and CEO, Jacobs Engineering Group, Inc.

Tuesday, June 21, 2005
Reception and Silent Auction: 6:30 p.m.
Dinner and Dancing: 7:30 p.m.

The Waldorf-Astoria, The Grand Ballroom
301 Park Avenue, New York City

For more information, contact Raina Lamade at 718-260-4016 or rlamade@poly.edu.
In Memoriam

Henry Q. Middendorf
Professor Emeritus
Henry Q. Middendorf '70 HON died January 16, 2005, in Blue Bell, Penn; he was 98. He began his 36-year career at Polytechnic as a German instructor in 1934. After a year in military service during World War II, he returned to Poly and rose to professor, head of the Department of Modern Languages and dean of men. In 1958, he became dean of students and director of student services, and, six years later, assumed the additional role of acting dean of humanities and social sciences. He retired in 1970, the same year he received an honorary doctorate from Polytechnic and an Outstanding Civilian Service Medal from the U.S. Army. He also was an active leader in dozens of community organizations, including the Brooklyn Public Library and the Boy Scouts of America. His volunteer work was so well known and appreciated that Brooklyn honored this native son with a Henry Q. Middendorf Day in the late 1960s. His wife, Evelyn, died in 1993. He is survived by his companion, Bonnie Sanfield.

Sebastian V. Nardo
Professor Emeritus Sebastian V. Nardo '42AE '49AM died January 26, 2005, on Long Island, at age 87. In a half-century relationship with Polytechnic, he was student, educator and administrator. A three-time graduate of Poly, he was one of the first two students (the other being Edwin E. Miller) to receive a master's in aeronautical engineering from the University. He joined the faculty in 1948 as an instructor of aeronautical engineering. In 1973, he became associate dean for the Long Island programs, responsible for graduate programs and the development and operation of the undergraduate engineering curriculum offered jointly by Poly and Hofstra University. He resigned from this position in 1976, but continued as a professor until retiring in 1988. He received a 1972 Distinguished Teaching Award and a 1996 Distinguished Alumni Award. He is survived by his wife, Carmella, four children, eight grandchildren and two great-grandchildren.

Student chess expert competes internationally

Iryna Zenyuk '08AE is one busy, world-traveled, freshman. Late last fall, she spent time in Greece and Southern California. Fun in the sun? More like long hours in a quiet room with intense people bent over tables. Welcome to the world of a chess champion. Rated an “expert” player, she plans to be “master” by this summer—Zenyuk was the sole U.S. representative at the 2004 World Youth Chess Championship, held in Crete, where she tied for No. 15 in the under-18 category. At the U.S. Chess Championships, held in San Diego, she was one of 64 of the nation's chess champions who competed for more than $250,000 in cash and prizes. She's ranked No. 13 in the U.S. women's category (by international ratings) and in the top 30 in U.S. women's category (by U.S. standards).

Taught chess by her grandfather in her native Ukraine, Zenyuk has been competing worldwide since she was eight. Preparation for a match can last six hours a day, reading about great matches and studying different parts of a game. When she's not hitting the chess books or board, she and her laptop are at Poly, where she is majoring in aerospace engineering and looking forward to a career that involves aircraft or space shuttles.

FACULTY HONORS

President Emeritus
George Bugliarello has been elected a foreign member of the Accademia Nazionale delle Scienze detta dei XL (Italian National Academy of Sciences).

Mark M. Green, professor of organic chemistry, has received the highest honor from the Society of Polymer Science, Japan, the SPSJ Award for Outstanding Achievement in Polymer Science and Technology.


M. Volkan Ötügen, professor of mechanical engineering, was elected an Associate Fellow of the American Institute of Aeronautics and Astronautics.
The Women Who Broke the Gender Barrier

When Janet Rosenberg Trubatch walked through the doors of Polytechnic as a freshman in early 1959, the 15-year-old had no idea she was setting a precedent. The year before, the faculty adopted new admission regulations allowing women to be admitted to both the undergraduate and graduate programs. As the 1,500 Poly men gawked at Trubatch, word quickly spread: Brooklyn Poly was now officially co-ed.

Trubatch wasn’t the first woman to graduate from Poly—the school counted nearly 50 alumnae before her—but her arrival confirmed the notion that men would have to accept women in the fields of science and engineering.

When Polytechnic was founded in 1854, it was to complement the prestigious Brooklyn Female Academy (now the Packer Collegiate Institute). Higher education in Brooklyn was set: Men went to Poly, women to the Packer Collegiate. The first woman student at Poly appeared half a century later, although most students were unaware. Anna Eidmann Willerth enrolled in the school’s newly established evening program, graduating in 1907 with a Bachelor of Arts degree. In the Commencement program, her thesis is listed as “Three Contemporary German Dramatists.” Unfortunately, no records survive to explain how Willerth managed to enroll in a boys-only school, and why.

Following Willerth’s graduation, for the next four decades, Poly men had only the female secretaries to admire—and that they did; each year, students voted for the prettiest. With the outbreak of World War II and a depleted student body, the school relaxed its policy and admitted women, many of whom took classes in drafting to help them get now-available jobs. One such student, 16-year-old Marjorie Wilson, caused such a stir that both the Brooklyn Eagle and the school newspaper, The Reporter, wrote of her arrival. While the Eagle breathlessly reported that “Marjorie has introduced a bit of silk-stocking glamour into the citadel of machinery, compasses and blackboards,” The Reporter went one farther, calling her the “heart-throb of the engineering drawing class.” Both articles noted that her professor had to assign her to sit in the rear of the classroom because her presence resulted in “wandering” eyes.

Whereas the few women who enrolled in the early 1940s did so, like Wilson, for an opportunity beyond secretarial positions, Gertrude Elion arrived at Poly in 1944 with a higher ambition: to earn a PhD in Chemistry to enhance her burgeoning career at Burroughs Wellcome Research Laboratories. However, after two years working days and studying nights, she was told by her Poly adviser that she had to choose between school and her job. She abandoned her goal of a doctorate, but vowed to “prove myself in my profession,” as she told the New York Times in 1988, the year she was awarded the Nobel Prize in Medicine. She did finally earn her degree when the University awarded her an honorary doctorate the next year. Her discoveries of cancer-treating drugs led Tom Brokaw, in his 1998 bestseller The Greatest Generation, to devote a chapter to her.

Sylvia Lepow Waller entered the evening program a year before Elion but with greater...
success. In 1946, she became the first female undergraduate to receive a degree in engineering. Also graduating that year was Anita Fischman Halpern, who earned a master’s in chemistry and would go on to become the first woman at Poly to receive a doctorate, in 1948.

With the return of war veterans, women were again not admitted to the undergraduate program, although those already accepted were permitted to complete their courses. They included Edythe Crescenzo de Gaeta ’48 ’52ME ’87HON, Ann E. Gunsolus ’48 ’49AE, Stella Lawrence-Daniels ’49 ’52EE and Ruth Harlan Lehmann ’49 ’51ME. In a 1952 article in Poly Men, Cable’s predecessor, the alumnae discussed their career choices in male-dominated fields. Many felt that their fellow co-workers were open-minded to women engineers, although, Lehmann added, “Women engineers are perhaps somewhat in the same category as women drivers; They tend to do a good efficient job, particularly when not heckled.”

The women also all agreed that, if given the option again, they would still become engineers. DeGaeta co-founded Emmco Development Corporation, a leading producer of ultra-precision and pure radial support ball bearings used in high-tech instruments; Gunsolus worked at Raytheon, where she helped design some of this country’s front-line strategic missile families, such as the Sparrow and Hawk. Lawrence-Daniels was a development engineer before becoming a professor. Lehmann founded her own engineering consulting company.

For the next decade, women still attended Poly, although only in the evening graduate program, and in minuscule numbers. Most majored in chemistry. During the Korean War, Poly again briefly admitted women as undergraduates, but, again, only in the evening program. “My most vivid memory of Poly,” says Ruth Hammond Nesekar ’55EE, was her amazement on her first day “to find that a Rosemary Walker and I were the only women enrolled.”

Nesekar remembers the men as accepting of her as a classmate; maturity divided the mostly older, working students of the evening classes from the younger,
“Poly Coed Count Increases 140 Percent” cried the headline in The Reporter in 1959. Susan Rosenbaum, Donna Roman, Colette Meallie and Frances Goldfarb Smyth, from left, were the second class of women to enroll as undergraduates at the school officially became co-ed.

During the 100th anniversary celebration of Poly’s Mechanical Engineering Program, in 1999, the University honored its first female aerospace graduate, Ann E. Gonsols‘ 48-49, pictured with Vice President Richard S. Thorson ‘69 67ME. In her career, she helped design front-line strategic missiles and participated in the manned space program.

Yvette Susline Weber ‘68AE planned to attend West Point, but her grandmother said, "Why go [there] when you have a very good engineering school right here?" Weber became Poly’s second female valedictorian, following Hala Bazaraa ‘57EE. Today, she is chief of the Technology Integration Branch of the U.S. Air Force’s Air Vehicles Directorate.

A year before Sylvia Lepow Waller ‘68EE graduated, the yearbook editors conducted a poll in which 70 percent of the seniors voted “no” to the question “Do you believe in women engineers?” Waller showed them, leaving Poly for a remarkable engineering career in all branches of the military before retiring as the U.S. Air Force’s chief scientist of studies and analysis.
rowdier boys of the day school. Janett Rosenburg Trubatch, during her first weeks at Poly in 1959, recalls it becoming “dead quiet when I walked through the halls.” The students placed bets on her GPA. “The boy I was dating [a Poly student], bet on a 2.0,” she says. “I earned a 4.0 almost every semester I was at Poly.” Months later, she discovered the secret for fitting in. One day in a boisterous physics lab, the professor yelled for silence using every curse word Trubatch had ever heard. He stopped short when he saw her. “I suddenly knew what my problem was,” she says. “The day I started swearing, I became one of the boys.”

Trubatch intended to study aeronautical engineering (“I wanted to pilot jets”) but was discouraged by her adviser and, instead, majored in physics. She went on to earn her doctorate and worked in both academia and federal-funding agencies, including becoming, at age 30, head of the neurobiology program at the National Science Foundation. Today, she is vice provost of graduate studies, research and outreach at the University of Rhode Island, where she is also the principal investigator of a $3.5 million NSF grant to advance career development of women in engineering, mathematics and the sciences.

In Trubatch’s sophomore year at Poly, she was joined by four women: Susan Rosenbaum, Donna Romine, Colette Mealie and Frances Goldfarb Smyth. The junior Rosenbaum, a transfer from MIT, and the three freshmen were initially amused by the attention; later, some succumbed to the pressure of being a minority. Of the four, only Smyth ’63MA and Rosenbaum ’61MA ’75MG completed their degrees. Sofia Milner Zilberfarb Laskowski, who transferred in 1960, graduated with Smyth with a degree in chemical engineering. While at Poly, she started the student chapter of the Society of Women Engineers. She went on for her doctorate and today is a program director at IBM, responsible for licensing the company’s intellectual property.

Rosenbaum, who died in 2000, was president of the mechatronics division of PSI Inc. Smyth joined the computer revolution in the 1960s and later worked in information technology at MetLife and Bear Sterns. Today, she is an IT consultant.

Of her school days, Smyth remembers a nurturing environment, although she never cut class because, “as the only woman there,” she notes warily, “my absence would have been noted.” She was Poly’s first female student elected to the Who’s Who Among Students in American Universities and Colleges.

The year Smyth and her classmates enrolled, Polytechnic began an earnest push for women students, with the then-director of admissions writing somewhat alarming letters to the current students, persuading them, that “to lure more girls to Poly, it is important for you to entice girls from your respective high schools to come here.”

As the enrollment of women students grew, so too did the number of women professors. The first female science instructor, Sophie Kahn, arrived in 1942. Twenty years later, there were seven women professors in English, mathematics and physics. Professor Shirley Motzkin joined in 1966 as a biology instructor and later became the first woman to receive tenure and to direct an academic program. Poly’s 1974 commencement ceremony brought two more firsts for women as the first woman ever to receive an honorary degree from Poly, Marian S. Heiskell, was awarded a doctor of laws degree from Professor Dorothy Prohaska James, the first woman to head a Polytechnic department, in humanities and social sciences. Heiskell was a noted civic leader and environmental conservationist and a former adviser to the U.S. Department of the Interior. James, who joined the faculty in 1965, was a scholar in German language and literature. Despite that history-making event, it took 26 years before another woman ran a department: Professor Lesley M. Silbner for mathematics in 1990, who was followed three years later by Professor Anne Eisenberg for humanities and Professor Mary K. Cowman for chemistry.

When the Polytechnic faculty voted to officially admit women in 1958, they did so because the school was moving to a larger building, on Jay Street, where they felt they could accommodate a female population. They also saw a growing interest from women to pursue professional careers in engineering and the sciences. In the years since, Poly women have made great strides to be accepted in the engineering and scientific communities. “The female students and alumnus of Poly are evidence of women’s positive influence on perhaps the last stronghold of male dominance—engineering,” wrote Anna Maria Ricco ’77’77 in 1976, the year she was elected Poly’s first female Student Council president. “Despite our small numbers, we have made our presence known and, I hope, worth remembering.”

Written by Theresa R. Tillet
Dr. Sidney Beinfest '49Chem
Technical Vice President (retired)
Millimeter-Onyx Corporation
$4,000 to the Alumni Wall
"Growing up in a religious household, I was exposed to the practice of charitable giving. My grandparents, who were barely making a living, placed pennies and nickels into tin boxes on the kitchen wall for charities to collect. When I started working, I, too, made contributions to charities, gradually increasing with time and job promotions. I appreciate my education at Polytechnic for making my giving possible."

Cosmo J. DiPerna '55 '57ChE,
with his wife, Madeline
Manager (retired),
Employee, Facility and Product Safety,
Mobil Oil Corporation
$8,000 to the Polytechnic Fund
"My education and relationships at Poly started me on a very successful career with Mobil, from 1958 to 1994. We were a close-knit group of 30 chemical engineering students in the Class of 1958, even though we were all commuters. I enjoyed fraternity life at Lambda Chi Alpha and the great assistance from professors in helping me make the right career choices. All these good memories have been the impetus for me to provide tangible yearly donations to support the programs of Polytechnic."

Dr. Jerome Grossman '44ChE, with his wife, Rose
Vice President (retired),
Administrative Services Inc.
$68,000 to the Polytechnic Fund and Alumni Wall
"In high school, I was drawn to Poly by current students who had only praise for the school. After a very favorable interview with Professor Brinns, I was immediately sold. I never regretted my choice. After retiring from engineering, I felt an obligation to Poly for having started me in the right direction. I wanted to show my appreciation by a gift that might help new students enjoy the same privileges accorded me."

Recipient of the Gordon G. Gould Scholarship
Rya Nazarov '04GS '07GeE
"You can never overstate the importance of a dollar invested in education. It goes on multiplying itself, paying in return far and wide, and impacting generations to come. The money invested in Polytechnic and in the Gordon G. Gould Scholarship, in particular, allowed me to earn a college degree; for this, I am fortunate and grateful."

Tired of riding the investment roller coaster?
A Polytechnic gift annuity offers financial security not found in today's market. When you fund a charitable gift annuity, a portion of your contribution is tax deductible, and you have a fixed-income payment for life. Best of all, part of the income payment is tax-free. And, gift annuities are flexible—you can add your spouse to the contract, or set up one for your parent.

For example, a $20,000 gift of cash or stock results in the following:

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Multiply your benefits by creating a gift annuity today and deferring payments to a later date. For the same $20,000 gift, you receive the following:

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To learn more about any of these opportunities, or to discuss a contribution, contact Thomas Daly, director of development, or Colleen Jansen, director of major gifts, at 800-765-9929, tdaly@poly.edu or cjansen@poly.edu.
In celebration of the 150th anniversary of its founding, Polytechnic University is publishing a comprehensive history book: Changing the World: Polytechnic University, the First 150 Years, which will be available in September 2005.

RESERVE YOUR COPY NOW!

Order before June 30, 2005, and pay a prepublication price of $29.95. After June 30, 2005, the book price will be $39.95.

Enclose this form in an envelope to:
Polytechnic History Book
Office of Alumni Relations, Polytechnic University
Six MetroTech Center, Brooklyn, NY 11201
Fax your order: 718-260-3449,
Attention: Polytechnic History Book

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Quantity Cost Each $ (29.95 before June 30, 2005)

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All of you know that the proposed NYU merger was rejected by Poly's trustees on February 1. Members of the POLYTECHNIC ALUMNI did a great deal of work on this issue, many of you expressing heartfelt and firmly held views in response to my December 31, 2004, letter. Your views were carefully considered by the trustees. We thank you for your messages and pledges of support.

One such responder, Christine Lanuzi '87EE '94IE, summed up her Poly experience wonderfully: "I always boast about my education at Polytechnic and hold it as a trophy to anyone who will listen that I never had to go away to a college in order to get the best engineering degree available." Read Christine's story on page 5. Also look to the middle section of this issue to see the emergence of other Poly women in science and engineering.

The trustees' vote reflects their confidence in an independent Poly now and in the future. Moving forward, the Board brings a renewed commitment to provide the "best engineering degrees available." It has developed a plan that includes maximizing the value of Poly's significant real estate assets and our $125+ million endowment, expanding our educational and faculty research opportunities, adding more dormitory space and making Poly attractive for students who want to study in New York City.

This year marks David Chang's last year as president. We alumni can easily see his most obvious achievements: Poly's first on-campus residence hall, a state-of-the-art academic center, an 11,000-square-foot interdisciplinary laboratory for undergraduates, a full-athletic facility, a student lounge and an expanded cafeteria and dining hall. We thank him for his substantial contributions to Poly and wish him well in his new post as chancellor.

The debate and rejection of the NYU merger was the easy part. Now begins the real work as the trustees expect us to fulfill our earlier promise to noticeably increase alumni giving if the merger proposal were terminated. The POLYTECHNIC ALUMNI IS working hard to implement that commitment by following up your pledges and doing more for you.

Improved giving and participation has been a goal for us from the outset. Now it is a necessity. We know it will only be accomplished by reaching out to you. We are doing that with new initiatives as well as conventional means. One new initiative is the Alumni Ambassador program, where you can help Poly recruit new students (see page 12 for more information). I also encourage you to network with your fellow Poly alumni at regional alumni receptions. I am constantly amazed at the breadth of achievements of our Poly sisters and brothers. We are everywhere and more and more often, in places you least expect us to be. Finally, come to the POLYTECHNIC ALUMNI Annual Meeting on May 24, 2005, at the MetroTech campus, where we will report to you what we have done and what we intend to do. You will see that the confidence you have shown in us by your increased pledges is justified.

I started this year by expressing my appreciation for having the opportunity to serve you. I have not been disappointed. It has been quite a year. There are good things ahead for all of us.
Casamassima, Katz bring expertise, wisdom to leadership seminars

Sal Casamassima ’70 ’71Chem and Larry W. Katz ’58EE brought their years of experience in intellectual property and Wall Street, respectively, to the Poly classroom as part of the Polytechnic Alumni Leadership Seminar. The series, sponsored by the Offices of Development and Alumni Relations, provides students with the insights and business acumen of successful alumni and friends of Poly.

Casamassima is a retired general counsel for ExxonMobil Upstream Research Company. He began his legal career in 1975 as a patent lawyer with Exxon Production Research Company in Texas. As general counsel, he focused on intellectual property, joint research ventures and technology licensing and contracting.

Katz, former first vice president of UBS Securities, has specialized for more than 30 years in stock and bond research, financial planning and insurance. He has lectured nationally on investment research and has consulted for projects sponsored by Congress, the Small Business Administration and the Securities and Exchange Commission.

Sal Casamassima ’70 ’71: “Coke does not talk to Pepsi. Secrecy is key to maximizing the value of intellectual property.”

Larry W. Katz ’58: “Earnings are an opinion, cash is a fact. Look at a company’s cash flow before investing.”

Alumni celebrate Poly in Israel

More than 60 alumni in Israel celebrated Poly’s sesquicentennial at a special dinner at the Weizmann Institute of Science. People attending the January event included (pictured below), from left, Avigdor Dagan ’99MG, Professor Harold Kaufman, Israel (Izzy) Borovich ’67 ’68IE ’71OR, David Rubin ’71SE, Amos Raviv ’98MG and Dr. Uzia Galil ’95HON. There are more than 1,000 alumni living in Israel (including graduates of Poly master’s program at Yeda College in Rehovot).

Alumni interested in attending the next event in the summer should contact Section Chair Avigdor Dagan at poly@dagana.com.

Organizational Behavior grads reunite, honor one of their own

Graduates of the Department of Management’s Organizational Behavior Program gathered recently to celebrate the 30th anniversary of the program as well as the 150th anniversary of the University. During the event, Professor Harold Kaufman, center, presented Elaina Zuck ’77OB with an Alumni Achievement Award. Since its inception, the program has graduated almost 200 students.
Poly ambassadors wanted!

The Office of Admissions is seeking alumni to serve as admissions ambassadors. Participants in the program will represent Polytechnic at college fairs, talk to guidance counselors and high school students and help identify qualified applicants to become the next generation of PolyThinkers. Volunteers are needed across the country and especially in California, Texas, Florida, Long Island, New Jersey and Washington, D.C. Alumni interested in being a Poly ambassador should contact Jonathan Wexler, dean of undergraduate admissions, at 718-260-3589 or jwexler@poly.edu.

POLY PRIDE

Westchester alumni shrug off snow to celebrate

On January 19, Polytechnic alumni braved a snowstorm to gather at Westchester County’s Dolce Larchmont House to celebrate Poly’s sesquicentennial. Among the party-goers standing from left: Barry Bank ’04CS, Porter Sherman ’96CS, Joseph Genovese ’95CS and Andre Marcinkowski ’97CS. Seated: Alan Krim ’61ME, Anthony Concilione ’82EE and Ethel Berkowitz ’64Chem.

SAVE THE DATE

Annual meeting of the Polytechnic Alumni

Tuesday, May 24, 2005
Dibner Auditorium
Five MetroTech Center, Brooklyn, New York

All alumni are invited to attend the annual business meeting of the Polytechnic Alumni, including the election of officers.

Alumni Reception ................. 5:30 p.m.
Annual Meeting ................. 6:30 p.m.
Dinner and Reunion ................. 7:30 p.m.
Honoring the Classes of ’50, ’56, ’61, ’80, ’85 & ’95

Dinner hosted by the Big Apple Section
Special feature: Silent Art Auction

Admission to the reception and meeting are free of charge. Dinner tickets are $25 per person. For more information, contact the Office of Alumni Relations at 718-260-3885 or alumni@poly.edu.

Nominations for Polytechnic Alumni officers and directors

Elections will take place at the annual meeting at 6:30 p.m., on Tuesday, May 24, in the Dibner Auditorium. All alumni are invited to attend and vote.

Officers 2005–2006
President: Thomas A. Mauro ’67PH
Executive Vice President: George Likourezos ’92EE
Vice President: Constantino “Gus” Sirakis ’97CE
Treasurer: Michael A. Urmeneta ’92ME ’00MG
Secretary: Luther L. White ’87OR

Directors 2005–2008
Edward Baron ’56AE
Norbert M. Bicales ’56 ’61Chem
Julie “Johnny” Lai ’85EE
Frank A. Namad ’68ME

For more information regarding the annual meeting, visit www.poly.edu/alumni and click on “Upcoming Events.” Additional nominations may be submitted to the Office of Alumni Relations by April 29, 2005, and must be endorsed by at least 10 alumni.
Class years are determined by the date the Office of the Registrar certified the granting of the degree. Alumni receiving multiple degrees from Polytechnic are listed under the first graduating degree only.

30s

O. Arthur Olsen ’37CE turns 90 in May and still plays golf several times each week and travels. He is caring for his wife, who has Alzheimer’s disease.

Martin Steen ’47EE and his wife, Selma, recently returned from three weeks in South America, including time on the Amazon catching piranha, using blow-guns and exploring the jungles of Peru. Bernard P. Gallopp ’49ME was the general chairman and organizer for the 2004 IEEE Lightwave Technologies in Instrumentation and Measurement Conference. He was the guest editor for a special joint issue of IEEE Transactions on Instrumentation and Measurement. Robert L. Wolke ’49Chem was named the 2005 recipient of the American Chemical Society’s James T. Grady-James H. Stack Award for interpreting chemistry for the public. A professor emeritus of chemistry at the University of Pittsburgh, he uncovers the science behind food and cooking as writer of the biweekly column, “Food 101,” published in more than 600 U.S. newspapers. He is also author of several books, including the forthcoming What Einstein Told His Cook 2, The Sequel: Further Adventures in Kitchen Science.

50s

Robert Spiegel ’50 ’54EE volunteers for the Lion’s Club, New Bensalem Safety Commission, Lone Star Transplant games, Austin-San Antonio chapter of the Association of Energy Engineers, civil air patrol and the IEEE. He still loves flying and is a half-owner of a V-tail Bonanza.


Arthur W. Kelly ’53Chem traveled to Connecticut for a gathering of friends from the chemical engineering class of ’53: Frank Gallagher, Richard Gardella, Wally Hansen and Jack Curtin. Robert Olmsted ’53CE was awarded the 2004 ASCE Civil Engineering History and Heritage Award at ASCE’s Annual Meeting in October in Baltimore. Edmund J. Mokeracki ’53ME is a coordinator with the NYC Board of Elections.

60s

Thomas R. Blake ’60ME is dean of the Newark College of Engineering at the New Jersey Institute of Technology. Hugh A. Nelson ’61ME recently retired from the Ford Motor Co. Arthur W. Eccleston ’62CE was elected chairman of the board of Staten Island’s Sky Light Center, a not-for-profit psychiatric rehabilitation agency. Martin P. Eidelman ’62MA is now the director of materials for the New York City Department of Corrections on Rikers Island. He continues to sing with the Mendelssohn Glee Club and started singing with the University Glee Club.

2006 Alumni Directory

Print and CD-ROM editions are in the works! We will be contacting you to update your information.
Institute. Sam Krinsky '64PH is director of Sweet Briar Homeopathy and does locum tenens work (temporary physician in medically underserved areas) as a nuclear physician/radiologist. Joseph M. La Rosa '65AE '68AM works for Pratt & Whitney as chief engineer for the GP7000 jet engine, which will be used on the new Airbus A380. Frank Wolf '65MG is teaching at the Huazeng, Graduate School of Business of Nova Southeastern University in Fort Lauderdale. He is also an NASB arbiter. Raymond W. Simpson '66EE designs high-performance cameras for scientific and national security applications at the Princeton Instruments, a division of Roper Scientific. His wife of 33 years, Carole, died this year. Israel (Izzy) Borovich '67 '68IE '71OR was recently named chairman of El Al Israel Airlines. He is president and CEO of Knaflim-Arkia Holdings, which recently bought El Al. He is also professor emeritus of computer and information systems at Tel Aviv University and has also served as chairman of the Information Association of Israel, executive committee member of the Advertisers Association of Israel, City Council member of Tel Aviv, board director of the Inerdisciplinary Center Herzliya and board chairman of Grant Hacarmel Investments and the Ayalon Highways Co. Michael S. Ellegood '67CE is the newly appointed director of public works for Maricopa County, Ariz. Melvin Weinzaucher '67EE is a director of domestic air traffic control programs at Raytheon, where he celebrates 36 years of service. He and his wife, Barbara, live in Framingham, Mass. Joseph J. Bono '68AE '70IE is the MM team leader on the SAP implementation project at Chemical Lime Co. in Texas. Ta-lin Hsu '68EL is founder and chairman of H&Q Asia Pacific, a venture capital firm based in Northern California. Robert L. Illucci '68ChE is president of Impact Environmental and Safety Solutions, a limited liability corporation of Sequa Corp., where he is a vice president and officer. Peter J. Kestembam '68 '71EE is a business-unit executive for the IBM Worldwide UNIX Server Division. Ernest B. Rockwood '68SyS is vice president for engineering at Sensis Corp.

Richard P. Fogarty '70OR received the 2005 Outstanding Engineering Award from the IEEE Power Engineering Society, New York and Long Island Chapter. Fogarty was cited for "41 years of outstanding service and leadership in the area of power engineering" and for his achievements as an engineer and manager. He joined Consolidated Edison in 1963 as a cadet engineer, and rose through the ranks to group leader of transmission and distribution sections, chief superintendent and transmission engineer and his current position of chief electrical engineer.

Rachelle Gross Friedman '71Chem is president of J&K Music World in Manhattan. She recently opened a new personal-care store on Park Row and will be expanding business to include appliances and housewares. Eduardo March '71IE was appointed the director of quality assurance and regulatory affairs for Cyntomed, a biotech company in Rockville Md. Ira Maser '71LS was named Outstanding Citizen of the Year in Lake Arrowhead, Calif. Craig G. Matthews '71MG was elected to the board of directors of National Fuel Gas Company.

Robert A. Bonelli '72EE is president of Northeast Securities, a full-service securities firm with over 100 employees in three offices in New York and Connecticut. John J. Carskey '73TP retired in March as the director of transportation services for Loudoun County, Va. John LaScala '73MG lives in Central Florida and enjoys golfing and travel. Joseph M. Michaels '73ME is an engineer at the New York Power Authority's Blenheim-Gilboa Pumped Storage Project in Schoharie County. In his spare time, he is helping restore a nearly century-old steam locomotive for use on the Catskill Scenic Railroad. Frank P. Zucino '73ME was president and CEO of Liberty Mechanical Contractors in Newark, N.J. He and his wife, Margaret, have two adult children.

Michael C. Pennotti '74EE has been named the director of the System Design and Operational Effectiveness Program at Stevens Institute of Technology's Schaefer School of Engineering. He joined Stevens in 2001 as an industry professor of systems engineering and engineering management. David M. Schueger '74SS '76MG is the Fluor Daniel/Buck Mickel Professor of International Business at the University of South Carolina and the managing director of the consulting firm Schweiger, Lippert & Associates. William T. Golden '73HN received a 2004 Polytechnic Alumni Achievement Award. He is chairman emeritus of the American Museum of Natural History and an officer and trustee of several scientific and educational organizations. During World War II, he invented an anti-aircraft machine gun device. He later served as a special adviser to President Truman, in the State Department and the second Hoover Commission, as well as several New York City

Major Codes

Refers the academic discipline listed next to alumni's class year. A full key to major abbreviations is available at www.poly.edu/alumni/cable.
commissions under Mayors John Lindsay and Ed Koch. **Glenn Panaro '76** recently joined the engineering firm Kleinfield as a senior project manager based in its Tempe, Ariz., office. He will administer Kleinfield's water resources, wastewater and solid waste efforts throughout Arizona. Previously, he was vice president of Florida operations for Applied Water Management and president and co-founder of Cerenzio & Panaro, PC, Consulting Engineers. **Szuy-Ping (Spencer) Kuo '77** has been named a 2005 Advanced American Engineer of the Year by the Chinese Institute of Engineers. A Polytechnic professor of computer and electrical engineering since 1978, he has patented a plasma torch module, which is paving a new way for solving aeronautical problems of sonic booms and severe wave drag in supersonic flights, allowing companies to build larger supersonic aircrafts and fuel-efficient rockets. He is now developing a plasma-torch module for use in an Air Force scramjet engine. **David E. Nissen** '79ME has completed his Six Sigma black belt certification for E.I. DuPont.

80s

**Jamie S. Fitzpatrick '82AE** was recently named chief technology officer of Aero-Vision Technologies. He and his wife have four children and live on Long Island. **Ali Akansu '83** 83EE had his book *Data Hiding Fundamentals and Applications: Content Security in Digital Multimedia* published in 2004. One of his co-writers, and former doctoral student, Husrev T. Sencar, is now a research professor at Poly Akansu is a professor of electrical engineering at the New Jersey Institute of Technology. **Paritosh Bajpayi '83CS** was named an Asian-American Engineer of the Year by the Chinese Institute of Engineers. He is vice president for engineering at AT&T Labs and 2004 recipient of an AT&T Science and Technology Medal. **Nicola Di Iorio '83CS** is the chief technology officer for the Interpublic Group of Companies. **Lisa Maenza '82AE** is an aerospace engineer for the Defense Contracts Management Agency at Northrop Grumman on Long Island. **Joseph Questore '83EL, 86EE** 89JF is director of the Bloomfield, N.J., office of ThruPoint, a technology consulting company. He was recently appointed to the Easttown Board of Education. **Aditi K. Sardar '83EE** received his professional license in electrical engineering in New York State. **Quang D. Tran '83EE'90MG** is a senior director for Philips Mobile Display Systems and has offices in Shanghai and Hong Kong. **Steven Cocosia '85EE** married Lisa Mottram in June 2004; they live in Hampstead, N.H., with his two children, Christopher and Lauren, both 11. He is a program manager for Raytheon Integrated Defense Systems in Bedford, Mass. **Dominic A. Marrana '85ME** works as a district account manager for Nalco Company and has relocated to Connecticut. **Audrey T. Braun '88EE** was appointed a vice president at Con Edison. He is responsible for all electrical operations on Staten Island and the company's transformer shop and electrical meter operations.

90s

**Chandresh Trivedi '90EE** was recently appointed general manager of Roper Southeast Asia, based in Singapore. Trivedi also manages the Asia-Pacific business for Media Cybernetics, an image analysis software company, and QIMaging, a scientific CCD-camera manufacturer. **Thomas K. Lee '91EE** is retired and living in Redondo Beach, Calif. **William C. Moir '91JF** is an Army major and an adjutant general assigned to the 20th Support Command at Aberdeen Proving Ground in Maryland. **Ke-Kei Chen '92CE** '97EV is a senior engineer for the Port Authority of New York and New Jersey. He and his wife, Suzanne, and daughter, Christina, live in Queens. **Roonek Doonoo '93CS** is very popular. His published articles (written with Poly Professor Phyllis G. Frankel), "Case Studies on Testing Object-oriented Programs," ranked No. 1 for 2004 as the most popular paper downloaded from the Association for Computing Machinery's Refereed Journals and Conference Proceedings (from ACM's Digital Library). The article, published in *Proceedings of the Symposium on Testing Analysis and Verification* (October 1991), was part of Doonoo's doctoral thesis research. He is co-founder and vice president of technology for Agitar Software in Palo Alto, Calif. **Alon J. Lewis '93MG** was promoted to vice president at the construction-management firm Stanka USA. **Pauline (Pollina) Gottlieb Zigman '94CS** works at Hunter College as a technical leader for developing a human resources system. Her four children, all boys, are in kindergarten. **Kevin McKenna '95CE** is a project manager with E.W. Howell Construction. He lives on Long Island with his wife, Kim, and children, Casey, 3, Kevin James, 3, and Cailtin, 2.

00s

**Danny Cardenas '00CP E '04EE** has joined Lehman Brothers as an assistant vice president in its global architecture and engineering division in Jersey City. **Barbara Giannomia '04MOT** received the Frank R. Smith Outstanding Journal Article Award from the Society for Technical Communication. Her award-winning article, written for a class project, is titled "The Future of Technical Communication: How Innovation, Technology, Information Management and Other Forces Are Shaping the Future of the Profession." Giannomia is a vice president at Morgan Stanley, responsible for technical and internal communications for the company's IT division.

In Memoriam

Frank J. Rappaport '36
John J. Kassner '37
Frank W. Holub '38
Stanley E. Jarosh '40
Douglas C. Montgomery '40
Sebastian V. Nardo '40 '42 '49
Paul E. Blomquist '41
Martin Sorensen '42
Gus G. Duke '43
Joel H. Fink '43
Gabriel A. Colombo '44
Salvatore E. Coppola '46
Bernard E. Gold '48
Howard A. Kirchner '48
John A. Lundin '48
Vincent A. Maturi '48
Hugh R. Barton, Jr. '50
Harvey J. Nodick '50
Paul B. Nowak '51
Norman R. DiBenedict '53
Thomas McLoughlin '53 '59
Benjamin J. Haagensen '54
Leo Viola '55
Andrew Politi '56
Henry Berger '57 '59 '67
Louis L. Sokol '57
Feli Ramanan '59
Leonard E. Mell '59
William H. Pesse Jr. '61
William S. Harrison '62 '62
David R. Gaskill '66
Henry Q. Middendorf '70
Robert Lavender '71
Fred Landis administration
Ninth Annual Polytechnic Classic Golf Tournament & Fundraiser

DATE: Sunday, June 12, 2005
TIME: 10 a.m. Registration, 11 a.m. Tee-off
PLACE: LaTourrette Golf Course
1001 Richmond Hill Road, Staten Island
CONTACT: Maureen Braeli, Department of Athletics
718-260-3458 or mbraeli@poly.edu

Amenities: 18-hole course, driving range, sleeve of balls and bag of tees, green fees and cart, continental breakfast, boxed lunch on turn.

Prizes: First, second, and third-place team trophies for lowest net; raffle and other prizes for closest to pin, longest drive.

- Golf and Barbecue $135
- Barbecue Only $40
- Hole or Tee Sponsor $200
- Corporate Sponsor $1,000
- I will not attend, but I would like to contribute $ ______

ALL PROCEEDS GO TO SUPPORTING POLYTECHNIC VARSITY TEAMS

Name
Address
Phone/E-mail

Relationship to Brooklyn Poly

Please mail or fax your reservation to Maureen Braeli, Department of Athletics, Polytechnic University, 6 MetroTech Center, Brooklyn, NY 11201; Fax: 718-260-3474

Sponsored by the Department of Athletics and the Big Apple Section of the Polytechnic Alumni.

Have a seat! The Office of Alumni Relations is offering alumni the opportunity to purchase an official Polytechnic University chair. The chair, available as either an arm chair or rocking chair, has the Polytechnic seal laser-engraved on the front, and is made entirely of solid maple hardwood with a beautiful lacquer finish and gold beading. Cost: $300, including shipping (in the U.S.); $25 extra to have it engraved with your name and class year.

To order, contact Donald Ivanoff, director of alumni relations, at 718-260-3885 or alumni@poly.edu.

UPCOMING SESQUICENTENNIAL ALUMNI EVENTS

May 11-12 Chemical Engineering Sesquicentennial Symposium
May 21 Golden Jubilee Luncheon
May 22 150th Commencement
May 24 Annual Meeting of the Polytechnic Alumni
June 12 Polytechnic Classic Golf Tournament & Fundraiser

Contact Alumni Relations at alumni@poly.edu or 718-260-3885, or visit www.poly.edu/alumni and click on "Upcoming Events."