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The Alumni Magazine of Polytechnic University

Winter 2005 Vol. 32 No. 1



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Joseph J. Jacobs dies at 88



Dr. Jacobs in 2000

He was the youngest child of uneducated Lebanese immigrants who instilled in him the value of entrepreneurship, hard work and integrity. These values served *Joseph J. Jacobs '37 '39 '42ChE H'86* well. At the time of his death on October 23, 2004, he was the founder and chairman of Jacobs Engineering Group, a multi-billion dollar enterprise ranked third in the nation among engineering firms, and Polytechnic's major living benefactor.

Jacobs enrolled in Polytechnic in 1933, marking the beginning of a relationship with the University that would last throughout his lifetime. "Jacobs Engineering is founded upon the chemical engineering knowledge I gained at Polytechnic," he wrote in his autobiography *Anatomy of an Entrepreneur*. His appreciation for that knowledge was demonstrated by his generosity and unwavering commitment to the University and its Board of Trustees, where he twice served as chairman and was a lifetime trustee.

His career began in 1942, when Jacobs joined Merck & Co., working on the fermentation process to recover butylene glycol. Later, he was assigned to a team that developed the first large-scale commercial production of penicillin.

Ironically, the drug would later save his life when he was stricken with a fever that left him near death.

In 1947, Jacobs struck out on his own and founded his eponymous company with his wife, Violet, who served as part-time secretary. After experiencing remarkable growth in the 1960s and 70s, the company faltered. In the 1980s, Jacobs came out of retirement to steer the company that bore his name back to profitability. By 1985, the company was solvent. In 1999, Jacobs Engineering employed over 25,000 workers in 60 locations worldwide.

*"Jacobs Engineering is founded upon
the chemical engineering knowledge
I gained at Polytechnic" - Joseph J. Jacobs*

During that year, Jacobs made an astounding \$20-million gift to his alma mater, bringing his total giving to the University to \$30 million. The gift included a \$10 million challenge, which helped catapult the University's \$275 million Campaign for Polytechnic—*Fulfilling the American Dream* to meet its goal.

Throughout his lifetime Jacobs was recognized for his professional and philanthropic endeavors, including being elected to the National Academy of Engineering and named a fellow to several prestigious science and engineering organizations. In 1985, he was the recipient of the PROMISE FUND's Distinguished Service Award for Science and Technology. In 1988, in recognition of his generosity and dedication to the University, Polytechnic named its administration building on the MetroTech campus in his honor. In 1994, the engineering and science departments were collectively named the Joseph J. and Violet J. Jacobs College of Engineering and Science. The University also established an endowed Joseph J. and Violet J. Jacobs Chair in Chemical Engineering. In 2002, Polytechnic's new academic and athletic building was named for Jacobs and his wife. Funds from the Jacobs Family Foundation supports the University's E.M. Jabara Scholarship Program (in memory of Violet's father) for students of Middle Eastern descent.

The Polytechnic community remembered Jacobs at a memorial service on the MetroTech campus on December 8. "Joe was my mentor and my friend, and I will miss him deeply," said Polytechnic President David C. Chang. "We are grateful for his leadership, good counsel and generosity to the University."

Jacobs is survived by his wife of 62 years; three daughters, Linda, Margaret and Valerie; and two grandchildren.



*Violet and Linda Jacobs at the memorial ceremony
on Poly's MetroTech campus.*



Senator Hillary Rodham Clinton, center, stayed after the lecture to talk with Poly students and alumni.

Senator Clinton, weapons expert Garwin wow audience

The senator was late—rainy weather and heavy traffic delayed her arrival for 45 minutes—but that didn't stop one of the largest crowds ever at a Poly event to gather. It was **Senator Hillary Rodham Clinton's** first official appearance after the Democratic defeat in the presidential elections; she garnered national attention for her visit to Polytechnic but kept the message mainly to her role as opening speaker at the Seventh Annual Lynford Lecture. Clinton promoted federal investment in education and said it was an honor to be at Brooklyn Poly, which is celebrating "150 years as a leader in science, education and research, and has shaped many of the leaders of tomorrow."

She then stayed for the main lecture, featuring **Richard L. Garwin**, a nuclear weapons expert and a 2002 National Medal of Science recipient. He discussed space weapons, warning the audience that the U.S. development and deployment of such weapons will not only encourage other countries to do the same, but leave vital non-weapon spacecraft vulnerable to attack. Garwin argued, instead, for a treaty among nations to ban space weapons and anti-satellite spacecraft. "I think that we need to have these formal agreements in order that we understand what is legitimate, and that other countries understand what is not legitimate," he told the audience. "They could, therefore, be punished not by tit-for-tat against their satellites, but against their military capabilities on the ground."



Nuclear weapons expert Richard L. Garwin argued that a space treaty, not space weapons, is essential for U.S. security.

Polytechnic and NYU End Merger Talks

Polytechnic has terminated merger talks with New York University and will remain an independent institution, announced the Board of Trustees on February 1. The merger talks between the two universities began late last year.

Stating that the discussions were frank and cordial, Stewart G. Nagler, chairman of Polytechnic's Board, said, "Polytechnic and NYU both felt that the long-term strategic objectives of the two institutions could best be served by remaining independent and we mutually agreed to terminate the discussions."

Nagler noted that the recent agreement for an exchange of post-master's students between Polytechnic and NYU's Graduate School of Arts and Sciences remains in effect.

In addition, Nagler said the University will resume the search for a new president. It was announced in December 2003 that President David C. Chang will step down in June 2005 after serving as president for 11 years. Chang has accepted a request from the University's Board of Trustees to serve as chancellor until June 2008.

Legendary alumnus Jasper H. Kane dies

Jasper H. Kane '28Chem H'95, an acclaimed biochemist whose innovative work with antibiotics has saved innumerable lives, died November 16, in Boca Raton, Fla. He was 101.

Kane's vision and enormous contributions to chemical science are legendary. In 1919, at the age of 16, he joined Charles Pfizer & Company, then a fledgling business in Brooklyn that produced citric acid. As an assistant to Dr. James Currie, he helped pioneer the mass production of citric acid by mold fermentation of sugar, an achievement that eventually freed Pfizer from dependency on European citrus growers. Kane went on to develop a new deep-tank fermentation method using molasses rather than refined sugar as raw material. He also was the pioneer behind the company's mass production of penicillin, streptomycin and other antibiotics using the same deep-tank fermentation methods perfected with citric acid. His work allowed the government to supply the antibiotic to injured soldiers fighting in World War II. Later, he headed the research team that, in 1950, discovered the antibiotic Terramycin, effective against more than 100 diseases. Kane eventually became Pfizer's vice president and director of biochemical research and development. By the time he retired in 1953, he had helped transform the company to a pharmaceutical giant with 68 plants in 27 countries.

"The story of Jasper Kane...speaks to us about the power of one individual to change the world. He thought boldly about his challenges, inspired others to rally behind a vision and, in the end, probably saved millions of lives," said Pfizer Chairman and CEO Henry A. McKinnell Jr. in his address, "How Poly Saved the World," at Polytechnic's 2004 Commencement.

Kane was born in 1903 in Brooklyn, the oldest of nine children. He and four of his brothers attended Poly, two majoring in chemistry and three in structural engineering. Kane attended Poly's evening program while working full days at Pfizer. After 10 years of study, he graduated in 1928 with a bachelor's in chemistry. "Polytechnic provided me with a very useful education," he said in an interview. "It gave me the discipline of a scientist and the courage to explore."

In his later years, Kane became an invaluable supporter of Polytechnic. He gave gifts of \$3 million, which propelled the success of the \$275 million Campaign for Polytechnic (1997-2001) and allowed the creation of two new laboratories for crystallography and organic chemistry. The University presented him with an honorary degree in 1995. In 2002, Poly named its new dining hall in his honor.

He is survived by his sister, Evelyn, three grandsons and seven great-grandchildren.



Dr. Kane, circa 1940s.

Don't be left out of the Alumni Directory!

Connecting with former classmates is a frequent request of Poly alumni. To achieve that demand, the Office of Alumni Relations and the POLYTECHNIC ALUMNI are working with the Bernard C. Harris Publishing Co. to update the Alumni Directory in print and CD-ROM versions, as well as create an online directory, accessible only to alumni. Please help us by responding when you receive a survey either by mail or telephone. You can also order a directory at that time. The new directory will be published in spring 2006.

CORRECTIONS

In the fall 2004 issue of *Cable*, Mike Lorczak, scholarship chair of the ASCE Met Section, was incorrectly identified as Ray McCabe in a photo about two Poly students receiving scholarships from the American Society of Civil Engineers.

Also in the same issue, alumnus Willard Bischoff's name was misspelled in the section on Alumni Wall giving. We regret these errors.

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.

LETTERS TO THE EDITOR

I read with great interest the article concerning the safe haven that Poly provided to European scientists during and after WWII ("Serving Our Country," fall 2004). I was a student after WWII, both on a part-time and full-time basis, and I have great and fond memories of Herman (the Geheimrat) Mark, Paul Ewald, David Harker and Isidor (Fan) Fankuchen, as well as Paul Bruins, Donald Othmer and Joe Steigman. The true story of their influence on American and world science is much greater than described in the article.

There may be one correction needed to the story: Fankuchen was Brooklyn born and bred and very proud of it. After receiving his doctorate degree in physics in the U.S., he went on to work in Cambridge, England, on tobacco mosaic virus where he received a second doctorate degree. He was renowned at Cambridge, and his lab was then (and maybe still) named the "Brooklyn Lab."

In addition to their scientific prowess, Poly faculty members were good sportsmen, bon vivants and leaders of the greater world community. Many were sailors, joggers and skiers, especially Mark, Bruins, Paul Libby and Robert Benenati. Bruins was a dedicated pilot who owned his own plane. When we needed to go to meetings, he always preferred to fly himself.

The importance of Mark can be illustrated by the attendance at his 95th birthday party, and by seminars at the school at which Linus Pauling, Peter Debye and other Nobel Prize winners spoke.

*Alvin J. Salkind '49 '52 '58Chem
Princeton, N.J.*

I thought that the fall edition of *Cable* was excellent. What a wonderful account of Poly history! However, I felt that an important piece of history was missing.

I was in the Class of 1944, and the physics book we used during the freshman and sophomore years was *Physics*, written by Poly Professors Erich Hausmann and Edgar Slack. It was an excellent book, and I soon found out that it was the bible among physics books. Virtually every engineering school in the country chose Hausmann and Slack for their physics courses. Professor Slack was one of my teachers. Good man!

Engineers of my generation, from Poly and from all other engineering schools, have a tender spot in their hearts for Hausmann and Slack. I still have my 2nd edition, written in 1939.

*Gordon Kraeger '44EE
Linthicum, Md.*

Regarding the names of Poly alumni who died in our nation's wars ("Serving Our Country," fall 2004), I believe that there may be an omission in the list for the Korean conflict.

Shortly after I graduated, I was told by a classmate that a fellow ROTC member, Alan Berger, was killed en route to Korea after being called to active duty. He was a passenger on one of three military transport aircrafts that crashed, at one week intervals, while attempting to land in Alaska on the way to Korea.

All this happened 52 years ago, so please do not take my report as conclusive. Although it still seems as if it happened yesterday, I recognize that after such a long time, memory cannot always be trusted.

*Herbert Feder '52ChE
Williamsville, N.Y.*

Editor's note: Although, we found no record of Alan Berger's death in our files, he did graduate from Poly in 1952, and was, by 1957, listed as deceased in the Alumni Directory. However, our sleuthing uncovered two other alumni who died during the Korean War: Lt. Albert J. Cullen '43, a fighter pilot killed in a mid-air crash over the Mediterranean Sea, and Captain John T. Williamson '52, a pilot killed following a night-flying airplane collision near Bermuda.



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.

Mail your order: Enclose this form in an envelope to: Attention: 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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Covert war on the Internet battleground

In the past six years, the entertainment industry has been waging war with an insidious enemy. The adversary is not one, but millions—disguised as your friends and neighbors and colleagues and children. Armed with a computer and access to the Internet, they are steering away hundreds of millions of dollars in sales from music and film companies by sharing copyrighted content on peer-to-peer (P2P) networks.

Battles have been fought in the courts, against companies and individuals, with mixed results. Now, the music industry is striking back with stealth, says Polytechnic Professor **Keith W. Ross**, who with a team of researchers, has studied this new little-known attack.

P2P networks work by allowing users with an Internet connection and file-sharing software—Kazaa/FastTrack's Media Desktop, for example—to download files directly from other users' hard drives. That means a single user on a P2P network can buy a CD, copy its songs onto his/her computer and share those songs with potentially millions of file sharers on the network.

In an aggressive attempt to curtail the illegal online trading of songs, music labels are hiring professional counterhackers, companies that specialize in polluting files—corrupting data to make them unplayable and falsifying metadata, or data about data, which describes characteristics of the file such as song and artist names. The desired result is users becoming frustrated with the quality of shared files and returning to buying CDs or using legal pay-per-download services like Apple's iTunes.

Ross, who holds the Leonard J. Shustek Chair in Computer Science, and graduate students **Jian Liang** and **Rakesh Kumar** have conducted and published a study that examined the extent of polluted files in Kazaa/FastTrack, the most widely used P2P network. They developed indicators to determine which recordings are most likely to be polluted, observed the extent of pollution in file sharing systems and identified the methods by which pollution occurs.

Using 10 Linux-based computers, MySQL open-source software and software designed by Liang, the team randomly tested

different versions of seven popular songs from different record labels. Each version sounds identical to the ear, but becomes unique when measured by the team's software, which detected variations in metadata and at the bit level.

The results told the team that about 50 percent of the versions and copies of the songs they tested were polluted, therefore ruling out accidental user pollution. User pollution occurs when people alter songs by making changes to the original, truncating the end of a song, for example.

The team determined a file to be polluted if it was non-decodable or if its length wasn't within +10 percent or -10 percent of the original CD version.

They then tested several older songs and found that pollution levels for those songs were minimal, leading to the conclusion that pollution companies were flooding the network with corrupted files of newer hit songs rather than older, less sought-after songs.

They also found that files that were in fact polluted were falsely given positive ratings. Each file on Kazaa/FastTrack can be rated for quality, therefore establishing a filtering system through

which users can decide whether or not to download certain files. The pollution companies have been successfully bypassing the filtering system and perpetuating the spread of polluted files.

Music swappers on a P2P network can prevent polluted files from spreading by only downloading files from friends or other trusted sources and by listening to songs before they put those files into a shared folder from which other users can download. They can also establish a reputation system, similar to eBay's feedback system, where users are rated by other users for the quality of files they make available.

The music industry's methods seem to be succeeding in reducing the number of file sharers on Kazaa/FastTrack, while increasing the number of file sharers on other P2P networks such as eDonkey and BitTorrent. "The number of users has not declined in the P2P space," says Ross. "They've moved to other systems."



Dr. Keith W. Ross uncovers the entertainment industry's quiet attack on digital privacy

continued on next page →

Covert War (continued)

In 2003, the entertainment industry received a setback when two companies that provide P2P file-sharing software—Grokster and StreamCast, maker of Morpheus—won a controversial court decision ruling that they cannot be held liable when their users download copyright material without permission. (The Supreme Court recently agreed to to hear an appeal in the Grokster case.)

And there are many users. P2P traffic makes up about 60 percent of all traffic on the Internet. At any given time, there are over eight million users on P2P networks sharing copyrighted files with each other. This fact, the music industry claims, has drastically affected music sales over the last few years. Forrester Research Inc., a Cambridge, Mass.,-based technology research company, estimated that more than \$700 million in sales were lost in 2003 because of widespread file sharing on P2P networks.

The problem P2P networks pose to the entertainment industry is the content of the files being shared. These files are often, but not exclusively, proprietary and copyrighted, leaving users satisfied and the entertainment industry lamenting.

The mass-scale power and influence of P2P networks is what Ross foresees to be an important asset in creating what he calls a “worldwide computer, where everyone’s computer is doing all these things for other computers, people and organizations.” This vision is not confined to the entertainment industry. One potential example is employing the combined computing power of the network to analyze complicated data of gene sequences.

However, as Ross’ study has shown, security concerns need to be addressed before a worldwide P2P network is feasible. A joint collaboration among copyright-interested parties, scientific researchers and software users has the ability to make P2P possible on a grand scale and provide protection of copyrighted material and access to tons of data.

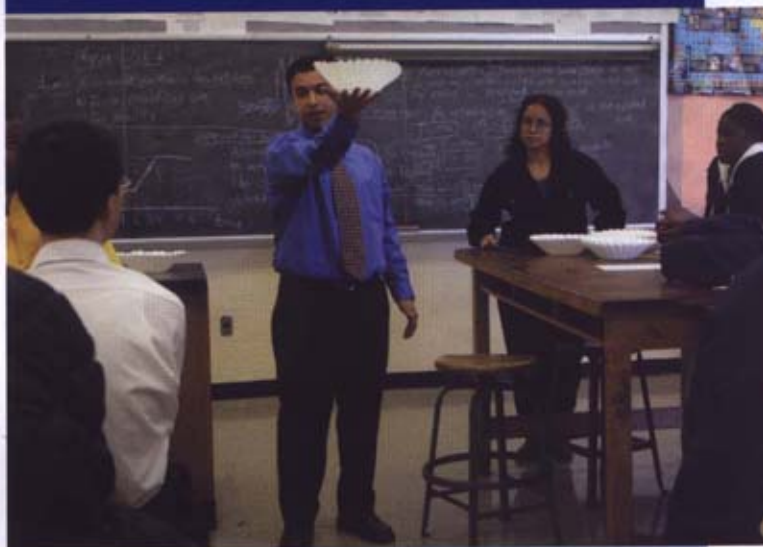
Written by Anthony Hernandez '05



Chinese Agreement

Polytechnic President David C. Chang, left, and Xu Aoao, director of the Macao University of Science and Technology (MUST), a leading university in China, sign an articulation agreement that will establish a student exchange between the two universities. Also on hand for the signing ceremony were President Chang’s wife, Cecilia, left, Dr. Harold Sjursen, head of Poly’s Department of Humanities and Social Sciences, and administrators of Macao University. In addition to MUST, Poly recently signed articulation agreements with Beijing Jiaotong University, Sichuan University and the University of Rome.

Poly students teach science and engineering in NYC high schools



Nerik Yakubov, a Poly graduate RAISE fellow, instructs students at George Westinghouse High School on how to use an ultrasonic sensor to find the effect of air resistance on free falling objects.

Polytechnic University graduate and undergraduate students are joining New York City high school teachers in the classroom to teach advanced science and engineering experiments.

“We want to engage and motivate students to the wonders of science and engineering,” says Dr. Vikram Kapila, associate professor of mechanical engineering at Polytechnic and the project’s leader. “Our goal is to inspire inner-city students to pursue challenging academic work, meet high academic standards and acquire a passion for science and engineering that will take them on to college and rewarding careers in the sciences.”

The program began in September 2004 at four high schools: Seward Park and Marta Valle in Manhattan and Paul Robeson and George Westinghouse in Brooklyn. More than 900 students at the schools take part in the program.

The project, called Revitalizing Achievement by Using Instrumentation in Science Education (RAISE), is funded by a \$1.46 million grant from the National Science Foundation. The program’s co-principal investigators are Dr. Magued Iskander, associate professor of civil engineering, and Dr. Noel N. Kriftcher, director of Poly’s David Packard Center for Technology and Educational Alliances.



DONOR SNAPSHOT

William H. May '98
MS, Financial Engineering
Senior Fixed-income
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President, UBS

\$10,000 to the Donald and
Mildred Othmer Residence Hall
(a room named in honor
of his parents)
\$1,000 to the Alumni Wall Fund

"I grew up a few blocks from Polytechnic and remember when the area surrounding the school was run down—a far cry from the vibrant center of learning, industry and tourism it is today. I know that the foresightedness of some of Poly's leaders played a major role in bringing this transformation. After graduating, I have tried to be an active alumni supporter of the school. What I learned as a student—both in the Financial Engineering Program under Dr. Kalotay and in the Information Systems Engineering Program under Dr. Flynn—has been invaluable in my career. More than providing me with a few technical skills, these fine educators helped me to learn how to learn, a value that only increases with time. As a Poly alumnus, I am proud to be involved with helping the school build today for a better future tomorrow."



DONOR SNAPSHOT

Frederic M. Oran '54
'57, with his wife,
Marilyn
BS, MS, Aerospace
Engineering
President and CEO
(retired), Homeacoustics

\$70,750 to scholarships
\$7,250 to the
Polytechnic Fund
\$3,000 to the
Alumni Wall Fund

"As a Poly student, I was inspired by the dedication, friendliness and competence of the professors involved in my education. My financial contributions to Poly over the years express the gratitude I feel for the role they and the University played in my success. Hopefully the scholarship fund my wife and I set up in the name of my parents, Lilyan and Milton, will help launch some young person on the path to the same kind of successes I experienced."

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.

What's in a name?

At Poly, we take our names seriously. Through the generous support of alumni and friends, we've been able to create a vibrant learning environment that includes a technologically advanced library (Bern Dibner Library), a full-service cafeteria (Jasper H. Kane Dining Hall), a spacious and quiet place to meet (Peter P. and Barbara L. Regna Student Lounge) and state-of-the-art classrooms (Sue and Bill Murray Lecture Hall, to name just one).

Below are opportunities for you to contribute to Poly's future and leave your name (or that of loved ones) as a legacy:

Alumni Wall Inscription
in bronze (\$1,000), silver (\$2,000) or gold (\$3,000)

Scholarships
(beginning at \$2,500)

Sesquicentennial Fund, to support year-long events and publication of *Polytechnic University: Changing the World* (\$1,000 to \$50,000)

Othmer Residence Hall Room (\$10,000), Suite (\$25,000) or Study Lounge (\$50,000)

Hall of Fame
to name it (\$1 million) or support its creation (\$10,000 to \$100,000)

Endowed Scholarships
(\$500,000)

Honors College Faculty Chairs (\$1.5 million) or Distinguished Chairs (\$2.5 million)

Endowed Chair (\$1.5 million) or Distinguished Chair (\$2.5 million)

Biotechnology Laboratories
(\$500,000 to \$3 million)

Biotechnology Distinguished Chair
(\$2.5 million)

Honors College
to name it (\$5 million)



Donors Feted

Polytechnic paid homage to an elite group of donors at its annual President's Associates reception at the Brooklyn Historical Society. President David C. Chang presented *Henry L. Bachman '51EE '54EL* with a gift, honoring his 25 years of continuous giving, as the associates' chairman, *Charles J. Hinkaty '70 '72MA*, looked on. *Leonard Berkowitz '57ChE* and *Arthur Fontaine '63CE, '77IE* were also honored. Members of the associates contribute \$1,500 or more annually to the University.

When most people talk about Brooklyn Poly, they note the rigorous education, the substantial research and the opportunities for students. Sports is usually not a topic spoken in the first or second breath. But for what Poly lacks in ESPN exposure, it more than makes up for in history (the century-old Poly-Pratt basketball rivalry), championships (from rifle in 1938 to volleyball in 2003), top players (Harmon Hoffman '54, Ivo Moyano '97 to name just two) and spirit (the annual alumni-varsity competition).

A member of the National Collegiate Athletic Association (Division III) since 1927, the University is also a member of the Eastern Collegiate Athletic Conference, the North Eastern Collegiate Volleyball Association and the Hudson Valley Men's and Women's Athletic Conference. Poly was also one of the founders of the Independent Athletic Conference, which existed from 1973 to 1996.

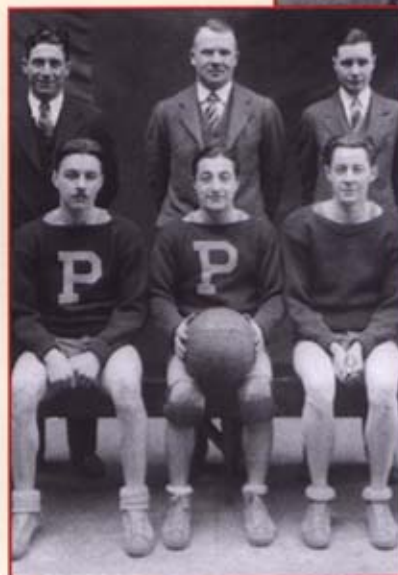
A cursory look at the history of Poly sports will show a dedication by students, alumni and coaches to develop a rewarding and leading sports program, which continues to grow today under Athletic Director Maureen Brazier and her coaches.

POLY SPORTS

The Fighting Blue Jays through history



Le Roy Durborow was Poly's first athletic director and assistant professor of physical education. He coached the basketball team for 18 years until his death in 1942. "Never was a finer man than Durborow. He had savvy, knew his basketball, and was respected and loved by the men who played for him," said Rudy Napoli '28ME (Poly Men, May 1953), pictured, holding ball with Durborow standing behind him. The L. R. Durborow Trophy, Poly's highest athletic award, was created to honor him, and is now called the Outstanding Athlete Award.

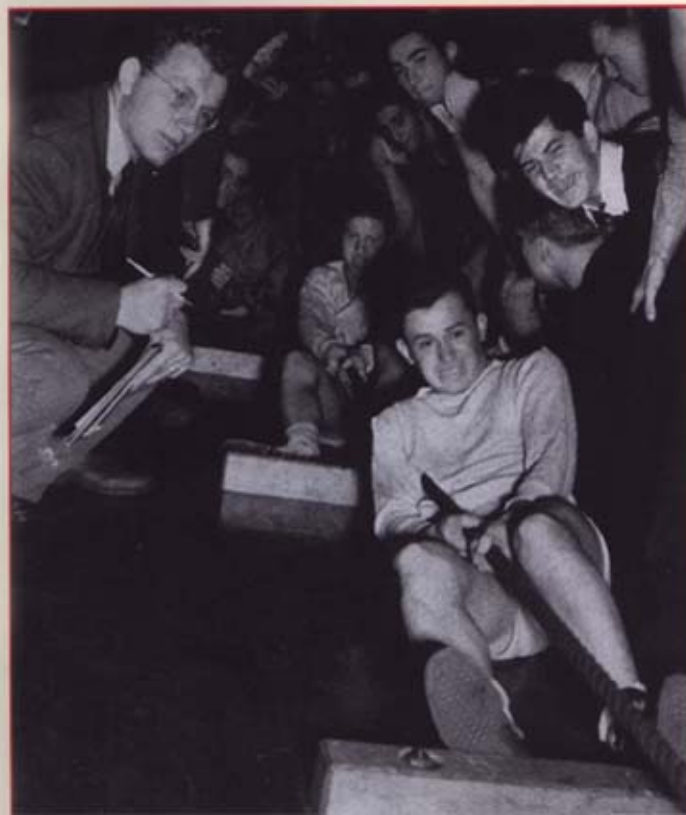


An institution at Poly for many decades, Scraps was a friendly rivalry among the freshman and sophomore classes, proving "a chance for the budding engineer to sharpen up his fighting spirit and to play at the good old game of 'give and take.'" (Polywog, 1940) Among the games played were football, boxing, wrestling and tug-of-war, many fought on Ebbets Field.

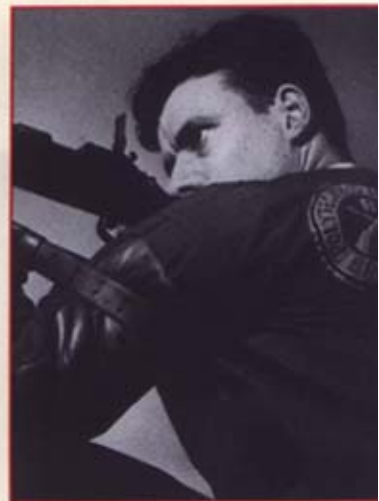


"Gruff old Cockey frowned on athletics of any type." (The Story of Poly, 1940) So said students about President David H. Cochran, whose opinion, however, did not prevent them from forming tennis and lacrosse

clubs. Poly got its first sports team, football, in 1879. An organized baseball team followed a year later. Athletics expanded in 1890, when 85 Livingston Street was built, housing a gymnasium and a pool, the largest at the time in Brooklyn.



In 1938, Poly's rifle team won the Metropolitan Championship and was ranked 12th in the nation. The team was lead by manager Albert Braunmuller '39Chem, pictured, and captain Robert Terry '38ME, who was named the National Rifle Association's All American.





Physical education courses were required of Poly students, pictured working out in 1941. With the 1957 move to Jay Street, the school no longer had a gymnasium and pool, and students learned to make do with playing in the basement of Nichols Hall and rented facilities throughout the city. In 1972, a bubble was erected on the roof of Nichols and laid with a basketball floor from the Brooklyn Armory that was donated by Pratt. Students dribbled, fenced and wrestled under the white sheet until it collapsed after a snowstorm in 1979. The creation of playing fields on the Long Island campus in the 1980s alleviated some problems, although it meant long traveling periods for Brooklyn players. With the building of the gymnasium and fitness center on the MetroTech campus and the use of Floyd Bennett Field in 2002, students received a home-court advantage after more than 40 years.



Bob Whalen '54ME, Hank Dunkman '54ChE and Harmon Hoffman '54ChE, pictured from left with Coach Artie Meinhold, were the stars of basketball in the 1950s. Hoffman was the first player in Poly history to score 1000 points, in 1953, and was named All American for the NCAA Division III. Dunkman scored 1000 points in 1954, the same year he was a draft pick for the New York Knicks.



In 1977, Polytechnic's basketball team spent three afternoons practicing with the Tivyla Tharp dance troupe, resulting in a joint public performance that demonstrated the relationship between athletic motion and dance.

The early 1970s saw women on Poly teams, first in swimming and water polo, then basketball and fencing. An all-women's team was created in 1984, in volleyball, followed by tennis and basketball. Poly



now has an established NCAA Division III women's program comprising basketball, tennis, softball, cross country and track and field. In 1989, volleyball player Khaudia Provios '89 became the first (and only) woman inducted in Poly's Athletics Hall of Fame.



When coach and trainer Clarence Lane died in 1966, he left behind the memory of more than 30 years of cheer and services to Poly students. "I can picture him as he saw me entering the equipment room of the Y. 'Go to hell, Gaylord,' he would say. 'Whatever you want, you may as well forget it, because you won't get it.' His manner may have been gruff, down-to-earth and unusual, but it was his way with the boys and they liked it." (Donald Gaylord '67SE, Polywog, 1967)



The Poly-Pratt basketball series began in 1904, tying it with Columbia-Penn and Cornell-Penn for the sport's fourth-longest continuous rivalry, according to the NCAA. In the late 1930s, freshman attended games for orientation credit. In 1946 and '47, fans packed Madison Square Garden to see the teams compete. In 1971, the 100th game between the two schools was played with Captain Joe Englot '72CE scoring the winning point for Poly.



After a nearly 40-year absence, Poly's baseball team was reformed in 1971 by Athletic Director Joe Martini, with help from Bill Wallace '73CE and Charles Gozdziwski '72AE. Nine years later, under Head Coach Dennis Murphy, the team won the championship for the Independent Athletic Conference. The Blue Jays beat New Jersey Institute of Technology 3-1, with second baseman Mike Giannettino '82CS driving in the winning run with a single in the fourth. Starter Jerry Heaney '83ME was named the IAC MVP and Poly's 1980 Athlete of the Year.

Founded in 1952 as a club, fencing was one of Poly's most popular and consistent sports. Its spirit in the later years lay with Coach Allan (Doc) Kwartler (1965-1980), a three-time U.S. Olympian, who took several of his students to NCAA National Championships.



In 1982, Poly's cross-country team ran away with the Independent Athletic Conference Championship with Charlie Castiglione '82OR taking the individual title with a time of 28:35, beating his competition, and his own record, by 25 seconds.

Wrestling Coach Ed Collins (1951-1986) "was beloved," remembers Martini, who worked alongside him for 19 of Collins' 36 years at Poly. An Olympic hopeful—he qualified to compete in the 1940 games, which were cancelled because of World War II—Collins brought the passion for the sport to his students. When he retired, those same students came from around the country to celebrate his career.



Now in its 43rd year, the annual alumni-varsity cross-country match remains a popular reunion for alumni runners to prove their mettle against their younger peers. Started by Rich Lucian '62PH, the match is now part of Poly's annual Homecoming, established in 1971 by Coach Martini. Pictured are cross-country alumni at the 1992 meet, from left, John Prizzi '74MT, Bob Sherman '71Chem and his son Greg, Bob McDermott '62MT, Bill Galati '62PH, Herb Navarro '68SE and Lucian.



The annual Collegiate Halloween Fun Run in Van Cortlandt Park was started in 1992 by Nick Russo '73ME, with Yeshiva University and Stevens Institute of Technology (Joe Zammit '95AE won the first run). In 14 years, it has grown from those schools and a handful of runners to 17 area schools and nearly 200 runners. In 2003, it was renamed in memory of Russo. "Nick would start planning the race in the summer," says Al Alonso from Stevens. "He would start the [race] day by putting up the banner across the finish. He loved taking pictures and sending them to the participants. He also looked forward to throwing candy at the awards presentation. He would say, 'what is a Halloween run without the candy!'"



The men's volleyball team, in existence less than a decade, won the Hudson Valley Men's Athletic Conference Championship in 2002 and 2003, as well as the tournament championship in 2003. James Zeng '99ME was named Coach of the Year both years, and Tyrone Acosta '03CE and Peter Drys '07 were tournament MVPs in 2002 and 2003, respectively.

In 2003, the men's basketball team captured the Hudson Valley Men's Athletic Conference Championship, its first such championship win in over 25 years. Coached by Laddy Baldwin, the third-seeded Blue Jays sealed the victory with wins against SUNY Purchase and St. Joseph's College. Brian King '07, pictured in dark uniform at net, was named the tournament's MVP.



Ivo Moyano '97ChE was a double threat, playing for the basketball and soccer teams. As a sophomore, junior and senior, he took the MVP title for basketball and won the Outstanding Athlete Award for both sports.

With a driving layup shot in a 1992 game against Pratt, Terrence Dupree '92, second from left, earned his 1651st point, becoming the all time leading scorer in Polytechnic history, followed by George Muller '84, with 1650 points. Dupree ended his Poly career at a record 1829, which stands today. He is pictured with, from left, Coach Laddy Baldwin, his brother Leon and Assistant Coach Artie Williams.



POLY ATHLETICS HALL OF FAME

- Kamil Agi '90, soccer/basketball/lacrosse
- Sal Alaimo '53, swimming
- Nathan Alperin '56, basketball
- Mark Anderson '78, basketball
- George Barberat, basketball coach '78-86
- Ed Barron '56, cross-country
- Harry Benvenuto, swimming/water polo coach '47-67
- Robert Bernert '54, swimming
- Henry Boyton '82, baseball/wrestling
- Bruce Brandt '72, baseball
- Carl Braun '41, rifle
- David Bretan '93, tennis
- John Brook '56, track/cross-country/basketball
- Charles Castiglioni '82, cross-country
- Edward Collins, wrestling coach '44-84
- Roger Cresci '89, basketball/baseball/soccer
- Henry Duckham '54, basketball
- Richard Durant '70, basketball
- Robert Engers '87, soccer/baseball
- Joe Englot '72, basketball
- Bernie Farkas '56, basketball
- Ken Fisk '76, basketball
- Warren Flynn '50, wrestling/track
- Barry Fox '73, swimming
- Thomas Francavilla '80, baseball
- Mike Giannettino '82, baseball
- Lawrence Gould '46, basketball/tennis
- Charles Gozdziowski '72, baseball
- Alphonse Greco '23, baseball
- William Greco '24, wrestling
- Richard Gronlie '97, basketball
- George Haun '49, basketball
- Gerard Heaney '83, baseball/basketball
- Fred Heinzelmann '36, wrestling
- Harmon Hoffman '54, basketball
- Albert Jansen '32, basketball
- Andres Kashnikow '72, soccer
- Andy Ledins '80 soccer
- Saul Lesler '59, wrestling
- Ron Leuchs '64, basketball/cross-country
- Daniel Luby '78, baseball
- Rich Lucian '62, cross-country
- Felice Mancaruso '78, wrestling/baseball
- Frank Marcazo '82, baseball
- Anthony Marsaglia '55, wrestling
- Joe Martini, athletic director '67-97
- Al Milas '44, basketball
- James Monarchio '81, soccer
- Mike Morkowitz '71, basketball
- George Mueller '81, basketball
- Denis Murphy, baseball coach '69-85
- Ray Nella '70, baseball
- Anthony Palazzola '72, swimming
- Peter Parformak '81, wrestling
- Narciso Patterson '86, basketball
- Jean Polyne '82, basketball
- Chuck Privalsky '68, basketball
- Khaudia Provios '89, volleyball
- Richard Ramage '54, basketball
- John Reilly '77, basketball/baseball
- Joseph Richetti '95, baseball
- Edward Russell, athletic director '44-66
- Nick Russo '73, basketball manager/SHD
- Joe Sanchez '73, basketball
- Harry Schmidt '56, track
- Claire Selleck '32, basketball
- Joseph Settepani '55, wrestling
- John Shaughnessy '82, cross-country
- Clarence Silleck '32, basketball
- Authur Szeplin '58, wrestling
- Steve Tsevdos '86, basketball
- Bill Tuccillo '72, basketball
- Walter Von Dehsen '74, basketball
- William Wallace '73, baseball
- Charles Walsh '42, basketball
- Seymour Warshaw '40, basketball
- Robert Whalen '54, basketball
- Henry White '87, basketball

Written by Therese E. Tillett, with thanks to Joe Martini, Maureen Brazier, Heather Walters and Rich Lucian '62PH for their help in research and recollections. Special thanks to the late Nick Russo '73ME for his meticulous record keeping of all things sports related.

Happily ever after Poly

Maybe it's from the vapors wafting from the chem labs or the bonding over arduous study assignments, but even though male students outnumber women four to one, long-lasting romance has blossomed for countless students at Poly. Cable takes a look at five such couples who found their significant other, be it in the cafeteria or classroom.



Steve and Lee Rittvo

For some couples, the green at Poly is steeped in a certain romance. Just ask *Steve Rittvo '69SE '71TP*, who proposed to *Lee Retzger* in front of what's now the Poly bookstore. This was formerly the Xerox room of the library, where Steve had worked during his freshman and sophomore year. Little did he realize that he and Lee would have an appreciative audience in his co-worker Ralph, who operated the library Xerox machine. "The window was open," says Steve, "and there was Ralph, staring out the window as I'm on bended knee on the green cement, and he's cheering."

"I was awestruck," says Lee, who had no idea Steve had picked out a ring. The couple met on the cusp of 1967 when Steve introduced Lee, whose cousin he was dating, to one of his fraternity brothers as a New Year's Eve date. Shortly after those relationships dissolved, Steve called Lee with an unusual request. A counselor for a YMCA in Queens, Steve had brought his charges on a summer camping trip to Long Island, close to Lee's hometown. He asked if she'd "like to cook breakfast for 200 little boys," says Lee, a graduate of Queens College and Tulane University. Naturally, she was delighted. "I just thought he was an amazing guy. Just this wild man who was totally undaunted by anything. Still is, to this day."

After their first date at the annual Halloween ball sponsored by Steve's fraternity, Lee became such a fixture at Poly that she took a summer job there in 1968, when Steve received his first National Science Foundation research fellowship. One of his advisers, Bill McShane '66 '68SE, hired Lee as a keypunch operator. "Lee and I were cleaved at the hip," Steve jokes, "and I think Bill really got tired of seeing her there without doing anything."

McShane also obtained a rabbinic dispensation to serve as a witness at their Orthodox Jewish wedding in 1970. Now living in New Orleans, the Rittvos have two children enrolled in MBA programs and fond memories of the courtship they conducted at Poly. As president of the Innovation Holdings Group, a prominent casino consulting firm, Steve still finds the time to serve on Poly's Board of Trustees and visit New York at least once a month. "It's amazing how Poly is intertwined in our lives," he says.

Lee couldn't agree with him more. "The people at Poly were warm and gracious and friendly," she says. "I always felt comfortable there. I always felt as if I belonged."



The Rittvos in 1980 and, above, today

Michael and Selena Leone

As students, *Michael Leone '98EE* had a habit of trying to surprise his friend *Selena Miuzzo '00CE*, whom he met “just by chance” in the Poly cafeteria at the start of the fall semester. The first time they went to an ice rink, he pretended not to know how to skate, even though he’d played ice hockey throughout high school. He also appeared outside Selena’s calculus class on her birthday with a huge display of balloons. On warm days, he would show up with a lunch basket for a picnic on the commons. When summer came, the two of them finally acknowledged their relationship was more than platonic. “We went out a lot with a group of friends,” says Michael, “and then, little by little, we wound up going out by ourselves.”

“We didn’t wait for everybody else to tell us, ‘You’re made for each other,’” says Selena. “We knew just by the things we had in common.” Besides their interest in engineering, they shared memories of a Brooklyn childhood and strong family values. Active in the Italian Cultural Club at Poly, Michael and Selena served as president and vice-president, respectively, and helped to organize the annual Carnival.



Their love of outdoor sports came in especially handy during Fourth of July weekend in 2000. While vacationing in the Catskills, Michael urged Selena to go on a hike. “It seemed like the longest hike I ever went on,” Selena remembers. “I was saying to myself, Mike, what are you doing to me?” At the top of the mountain, Michael asked Selena to close her eyes and make a wish. When she opened them, he was kneeling before her to propose marriage. “She always says that’s really the only time I ever surprised her,” says Michael.

Now Mrs. Leone for the past three years, Selena happily seconds this motion. She works as an operations manager for the New York School Construction Authority, while Michael is a general contractor with his father’s construction business. Living in Brooklyn “a mile away” from where she grew up, Selena credits Poly with teaching her “to work at something that you want,” whether it be a career or a relationship. For his part, Michael jokes, “If you met your significant other at Poly, you should have no problem having a strong marriage.”



The Kunklers in 1978 and today



Fred and Audrey Kunkler

For *Audrey Jolles '80Chem*, there were unexpected perks to being one of the few female students at Poly. “I was serious about my schoolwork,” she says, “but of course, like everyone else, I was 18 and looking for dates.” She was flattered when her classmate *Fred Kunkler '80EE* took a liking to her. “He was a lot older, and he wasn’t just like the other 18-year-old kids,” explains Audrey. “More mature, more serious, and had many interests. Just different all around.”

“Yeah, I definitely noticed her,” says Fred. Having served in the Air Force for three years and then working to pay for his education, he needed some time to adjust when he enrolled at Poly. “I was terrified when I went there,” he admits. But he found the transition easier because of a calculus professor that he and Audrey shared. At the end of the semester, his class treated the professor to dinner. Towards the end of dinner, Fred heard Audrey say she was calling her father to pick her up. With his car and his wits about him, Fred offered her a ride home. He also asked if Audrey was still seeing a fellow student. She said no. Their first date was a screening of “Star Wars.”

Although neither of them had anticipated meeting a future spouse at Poly—“As a student, I had visions of going off and living on my own after graduation,” says Audrey—the two of them quickly became an established couple, working for the school paper and enjoying music together.

Married since 1980, they now live in Maryland. Fred works for Lockheed Martin, Audrey for Clean Earth Inc., an environmental remediation organization. This year, they will celebrate their 25th anniversary and see their daughter, Rachel, off to college. The Kunklers have fond memories of what Audrey calls the “very warm and nurturing” community of Poly and close mentorship of its professors. As Fred puts it, “That environment was, for me, probably a savior.”

Profiles written by June Yang

ALUMNI PRESIDENT'S CORNER

A toast to new beginnings: To all of our Polytechnic family, the POLYTECHNIC ALUMNI extends its warmest wishes for a healthy, prosperous and happy 2005.

Now that Poly's Board of Trustees has ended merger talks with New York University, it is truly a time for new beginnings and a celebration of our illustrious past.

Poly's sesquicentennial celebration is a time when we take great pleasure in looking back on our history, knowing that what we have accomplished in the past is the foundation for what we will accomplish in the future. During our first 150 years, The Power of PolyThinking™ has produced great leaders and innovators in almost every field of endeavor one can imagine. As proof of this, I urge you to visit the website commemorating the accomplishments of Poly alumni, www.poly.edu/polythinking. In Brooklyn, moreover, we have assumed the mission of educating first-generation college students. Indeed, the idea of the American Dream, which has become part of the fabric of our nation and is understood world wide, originated with one of us. Did you know that Poly alumnus and Pulitzer Prize-winning historian James Truslow Adams, class of 1898, originated the phrase and concept? We cannot look at our achievements without feeling enormous pride at being part of the Polytechnic family. While it is quite appropriate that we do so, we understand very well that our gaze and ultimate goal is always ahead, to the future.

The year 2005 is also a new beginning for the POLYTECHNIC ALUMNI. In recent months, we are mobilized around two primary goals: (1) promoting the welfare of Polytechnic University with a renewed emphasis on fundraising and recruitment, and (2) creating a mutually beneficial relationship between the University and its alumni. To accomplish this, we are rebuilding our committee structure to expand the network of national and international

alumni leaders, who will assist the Office of Alumni Relations in reaching out to the University's 30,000 alumni. In addition, we are re-invigorating the alumni

chapter (or section) structure to create local networks of POLYTECHNIC ALUMNI. This issue reports, for example, that alumni *Max Lee '97 '99CE* has taken the helm of the Big Apple Section and *Johnny Lai '85EE* has restarted the section for Central New Jersey.

Over the past year, we have hosted leadership seminars, regional reunions and local and informal get-togethers. There is a great desire, thus far largely untapped, among us to network with each other. The POLYTECHNIC ALUMNI wants you to know that we care about you and wish to serve you; we want you to benefit personally from your individual participation. This was my first message to you, and I will repeat it as often as you allow me to.

Let 2005, therefore, be a new beginning in your relationship with your alma mater, our beloved Brooklyn Poly. In ending its discussions with New York University Poly's Board of Trustees heard and accepted what Poly's alumni had to say. It also made clear that Poly's future will not be business as usual and that we, her alumni, are part of the Board's new plans for Poly. Respond and volunteer to help us build the powerful organization our 30,000 members manifestly justify. Contribute to Poly enough to put your name on the Alumni Wall, and join with us at the sesquicentennial convocation in Brooklyn this fall. Don't be bashful about telling us how you want to celebrate our new beginnings together.

Tom
Thomas A. Mauro '67PH



Sesquicentennial Celebrations

Alumni reunited in Brooklyn, Long Island and Virginia to celebrate their alma mater's sesquicentennial. Photos from these events are posted at www.poly.edu/alumni under "Recent Events."

Upper left: *The Potomac Alumni Section Reception was hosted by William L. Friend '56ChE, pictured, from left, with Claudia Tom '99CS, Ed Barron '56AE, Larry Katz '58EE and Kathy Vorvolakos '95ChE.*



Above: *Class members from the 1960s gathered on the MetroTech campus, including, from left, Peter Billy '66SE and Ira Rubel '63ME.*



Left: *The Long Island Alumni Section had one of its largest gatherings, with more than 120 Polytechnic graduates—spanning 63 class years—attending the event at the Oak Room in Bethpage State Park.*



Dmitry and Oksana Parkhomovsky

What better place for two computer-programming specialists to start a romance than cyberspace? When *Dmitry Parkhomovsky '00CS '02MG* spotted *Oksana Zirkiyeva '01CS* at a Poly Career Fair, he was standing behind her as she waited to chat with a representative. "I mean, she was beautiful, you know?" Dmitry laughs. "I liked the way she dressed, very conservative." But he missed his opportunity to introduce himself. Fortunately, a friend who had sold Oksana a textbook remembered her name. Dmitry found her on a Poly server and dashed off a friendly e-mail.

A freshman at the time, Oksana was intrigued, although she had no idea who Dmitry was. "I noticed that it was more than just Career Fair and my résumé that he wanted to talk about," she says wryly. After

exchanging several e-mails, Oksana suggested they meet in person. One day, when she was in the computer lab, Dmitry e-mailed to say he was there as well. "Of course I was curious," Oksana says. "He seemed like a very smart guy, very well-mannered and mature."

That conversation led to another meeting in the Poly library, where he helped her with C++. For their first official date, Oksana invited Dmitry to a friend's birthday party. "We basically just danced," says Dmitry. "We had a lot of fun."

They also kept dating. As former Soviet Union immigrants—Dmitry was born in Kiev, Ukraine, while Oksana comes from Dushanbe, Tajikistan—the couple bonded over their shared experiences and Jewish faith. They were engaged in early 2001, with Dmitry proposing in Windows on the World on top of the World Trade Center. They wed on September 6 of that year. Following Jewish tradition, they celebrated for seven days after the wedding. The night before 9/11, both families attended a dinner that lasted until 3 a.m. Consequently, Dmitry's father was late to his job at Cantor Fitzgerald, where he worked on the 104th floor of the north tower. "He was waiting for the elevator in the lobby of his building when the planes hit," Dmitry says.

"We all came to work late," adds Oksana. She works for Goldman Sachs, which was located two blocks from the World Trade Center complex, while Dmitry works for ViewTrade, formerly housed on the 46th floor of the north tower.

Their gratitude for what they have extends to their fledgling family in Queens. The Parkhomovskys have two daughters, Rachel, 2, and Nema, 6 months. "I think we're both pretty lucky to have both chosen Poly," says Oksana, "not only because it offers a great education, but also because we found each other."

Bill Hery and Mary J. Calabro

Bill Hery '67 '71 '74MA made a vivid first impression on *Mary J. Calabro '74 '77MA*. A new master's candidate in the math department, Mary was talking to another graduate teaching fellow when Bill walked into the office. He had long, blond hair that he didn't even tie in a ponytail, Mary recalls. "So my impression was, 'Who is this hippie?'"

As for Bill, who counted very few women in his classes, he was glad to have Mary for an officemate. "I could say Mary at the time was very quiet and studious," he remarks.

"I was quiet?" Mary repeats in disbelief.

"I know," says Bill. "That's the amazing thing, now that I know her."

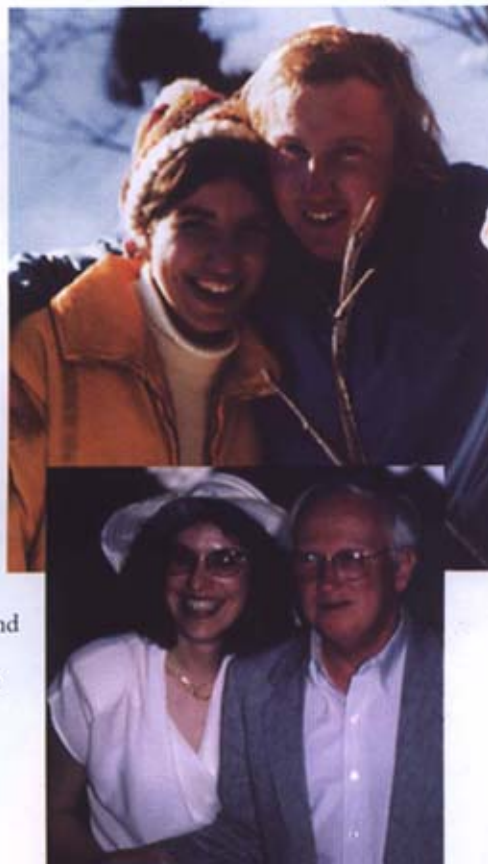
What the two of them did get right was their affinity of interests. With their third officemate, Diane Forastiero '77MA, Bill and Mary became friends over regular games of Hearts and Crazy Eights. They were also diehard skiers, and after their first date during Thanksgiving weekend, Bill invited Mary to a ski house he rented in Vermont with friends. "I think I eventually went nine out of the 10 weekends that he went," says Mary.

She also decided to stay at Poly to earn her doctorate. Although the two of them made time for each other, they worked hard as graduate students. "To give you an example of how dedicated Mary was to studying," Bill says, "we would go skiing, and she would bring a book and study for her orals while waiting for the ski lift."

After their wedding in 1977 and stints in teaching, they settled into careers in industry, Bill as a distinguished member of the technical staff at Bell Labs, and Mary as a computing and information manager at ExxonMobil. Mary still works at Exxon, but Bill retired from Bell Labs and returned to Poly part time in 2003 to direct a program in information security. Married for 28 years, they live in New Jersey and still enjoy frequent ski trips. They also continue building on the relationship they forged at Poly. "A lot of times, we have these strange conversations with mathematical references that nobody would ever understand," says Bill with a laugh.

"I think what you're getting here is a whole philosophy of this [relationship] has to be comfortable and easy and feel good," Mary adds, "and that's where it has been ever since."

Calabro and Hery in 1972 and today



Class years are determined by the year the Office of the Registrar certified the granting of the degree. Alumni receiving multiple degrees from Polytechnic are listed under the first graduating year only. A key to major abbreviations is available at www.poly.edu/alumni/cable.

20s

Bernard Salzberg '29 '33 '41EE is 97 and among Poly's oldest living alumni. He was recently interviewed by a U.S. Naval historian regarding his work for the Naval Research Lab during World War II.

30s

Anthony Mazzucca '37CE is a licensed engineer and lives in Manalapan, N.Y.
William C. Schmidt '37EE recently turned 95 and is "doing real well" in New Smyrna Beach, Fla.
Frederick G. Sawyer '39 '43ChE is a self-proclaimed "ancient air pollution maven," who has retired from academia/research and is finding his humorous side, publishing essays in the magazines, *LAF!*, *Satire*, *New Humor* and *Journal of Irreproducible Results*. He also makes handmade paper as an art form, and "splashes abstracts that worry his psychiatrist."

40s

Edward Bobroff '40ME is teaching cribbage at the "Explorers" of Salem College.
Edwin F. Morfit '42Chem celebrated his 95th birthday in September.
Robert C. Canapary '46 '48 '52ChE recently underwent quadruple bypass surgery and is recovering well.
Arthur Rossoff '47EE is the founder and past president of the Long Island Museum of Science and Technology, now under construction at Mitchell Field, next to the Cradle of Aviation Museum. To find out how you can help, e-mail conart@ieec.org.
Marvin Tetenbaum '47 '54ChE is an emeritus scientist at Argonne National Lab in Illinois.
Anthony J. Bianculli '49ME wrote the book *Railroad History on American Postage Stamps*.

50s

Arthur McIntyre '50ME and his wife, Lois, recently moved to Windward Village in Spring Hill, Fla., and report that they successfully made it through hurricanes Charley, Frances and Jeanne.
Michael A. Moscarello '51EE lives in Rockwall, Tex., and has "finally" retired at the age of 85.
Donald A. Pascal '51Chem was named 2004 Senior of the Year by Summit County, Colo.
Coleman Raphael '51CE '65AM wrote the book *One Businessman's Guide to Success*.
Jack Baronian '52ME and his wife, Helen, became first-time grandparents to two, born five weeks apart, in 2004. They live in Flushing, N.Y.
William W. Chang '52CE celebrates 53 years with Hardesty & Hanover Engineering. He is presently designing a rolling lift bridge in Tianjin, China.



Horace L. Morancie '58



Henry L. Bertoni '62



Vincent A. Calarco '63

David Lappin '52EE retired in 1995, after 20 years as an engineer at Picatinny Arsenal in New Jersey.
Donald R. Faulis '53EE and his wife, Florence, recently celebrated their 50th wedding anniversary on a cruise with their two children and six grandchildren. They moved to a new custom-built, one-story home in Bell Flower, Calif.
Gerald H. Rich '54EE and his wife, Marilyn, celebrated their 50th anniversary last year with a vacation to Alaska with their three children and nine grandchildren. They own Concord Communications in Stamford, Conn.
J. Kenneth Lund '55ChE and his wife recently spent a month in Antarctica, the Amazon and the territories in between.
Byron G. Schieber Jr. '55ME is a founding member of the Archimedes Club of the American Society of Mechanical Engineers International.
William J. Fleig '56EE retired from Lockheed Martin Corp. and now teaches high school math, part time, for the New York City public schools.
Rocco R. Ruggiero '56 '63MA retired from Lockheed Martin Corp. and now consults for L-3 Communications Corp. He and his wife of 42 years live in Brookfield, Conn., and have three children and six grandchildren.
Oscar Berendsohn '57MT turned 80 in 2004 and continues to work in forensic engineering, mostly utility malpractice.
Jack D'Agostino '57EE lives in Cape Coral, Fla., and made it through the hurricanes with minor damage to his house.
Richard J. Mohr '57EE was elected an honorary life member of the IEEE Electromagnetic Compatibility Society.
Fred Mintz '58ME works at the Savannah power site in Aiken, S.C., and plans to retire in 2005.
Horace L. Morancie '58CE received the 2004 Anheuser Busch Community Service Award at the 42nd annual Trinidad and Tobago Independence Anniversary Ball. A long-time community activist, he is credited with convincing NYC Mayor Lindsay to allow the first Labor Day parade on Eastern Parkway and for helping rebuild, restore and revitalize Central Brooklyn.
James A. Vonderlinn '58AE repairs airplanes as a volunteer at the Seattle Museum of Flight.

60s

Irwin Kra '60MA is the executive director of the non-profit foundation Math for America and a distinguished service professor emeritus at Stony

Brook University.
Evans J. Lizardos '60ME was honored by the North Shore Child and Family Guidance Center at its 8th Annual Golf Tournament. He was also a presenter at the northeast chapter regional conference of the American Society of Heating, Air Conditioning and Refrigeration Engineers.
Elihu Schatz '61Chem lives in Israel with his wife of 46 years, Frieda, and their 11 children and 40 grandchildren. He has published 19 books on the Tanach. In January, he was featured in a *Jewish Press* article on American Jews who moved to Israel for ideological and religious reasons.
Henry L. Bertoni '62EE '67EL was honored with a 2004 Polytechnic Alumni Achievement Award. A professor emeritus of electrophysics, he taught at Poly for 40 years and served as department head and as vice provost of graduate studies. He is a noted expert in the theoretical aspects of wave phenomena in electromagnetics, ultrasonics, acoustics and optics. He has written one book and chapters in nine books, co-edited five books and published more than 85 journal papers, including and four award-winning articles.
Howard S. Newman '62EE recently retired after 42 years with Northrop Grumman. He's now sailing, traveling and writing short stories.
John M. Ruddy '62 '67EL completed a four-year assignment as deputy for development and technology for the ground-based mid-course missile defense element of the Joint Program Office, Missile Defense Agency. He received a Secretary of Defense Award for outstanding public service.
Hans J. Bostell '63Chem lives in Milledgeville, Ga., where he gardens and consults in the fields of composite materials and the production of structural parts.
Vincent A. Calarco '63ChE received a 2004 Polytechnic Alumni Achievement Award. He is the former chairman, president and chief executive officer of the Crompton Corporation. He led the company for 19 years, during which time the company grew from \$230 million in annual sales to peak revenues of \$3 billion. He is chairman of the Chemical Heritage Foundation, co-chairman of the Harvard Center for Risk Analysis and board member of Consolidated Edison, the Newmont Mining Corporation and the Hospital of St. Raphael in Connecticut.



Clive L. Dym '64



Dominic J. Palumbo '66



Gabrielle Long '70



Elaina Zucker '77

Robert F. Voelker '63 '69ME retired from Lockheed Martin after 33 years at the Knolls Atomic Power Laboratory in Niskayuna, N.Y. He and his wife, Shirley, recently toured the Brooklyn campus for the first time since graduating.

Clive L. Dym '64AM received the 2004 Ruth and Joel Spira Outstanding Design Educator Award from the American Society of Mechanical Engineers. A professor at Harvey Mudd College since 1991, he holds the Fletcher Jones Chair in Engineering Design and is director of the college's Center for Design Education. He has written 10 textbooks and more than 100 journal articles on applied mechanics and acoustics. His expertise is in applying artificial intelligence to the modeling of engineering design tasks.

Howard H. Taub '64 '65 '69PH is vice president and director of the Printing and Imaging Research Center at HP Labs. His son, Jeremy, is a junior at San Jose State University, and his daughter, Lindsay, is a sophomore at the University of Southern California.

You-Ling Fan '65Chem was elected president of the Eastern United States section of the Distinguished Citizen Society International. He is on the board of the Phi Lambda fraternity, the international fraternity of professional Chinese.

Prentiss N. Robinson '65EE teaches, part-time, at the California State Polytechnic University in Pomona.

Dominic J. Palumbo '66AE '67 '70AA was awarded the Association for Unmanned Vehicles International's 2004 Pioneer Award for designing and developing three unmanned aircraft in service in Operation Iraqi Freedom. Palumbo leads the Air Vehicle Engineering Group at AAI corporation of AAI Corporation, which manufactures high-technology mechanical and electronic systems for both government and industry.

Charles L. Rohn '66Chem published *Analytical Polymer Rheology* and consults for the polymer industry.

Zindel H. Heller '67EL received a patent from the European patent office. He is retired and lives in Indianapolis.

Phil Hodge '67IE recently moved from Vermont to Hartford, N.Y., with his wife, Bunny, and their four Morgan horses.

Erol Gelenbe '68 '70EE heads the intelligent systems and networks section at Imperial College in London, where he holds the Dennis Gabor Chair. Gelenbe received an honorary doctorate from Bogazici University in Istanbul in 2004.

Robert J. Franco '69MT transferred to the ExxonMobil Production Co. as a corrosion adviser in the central engineering division.

Barry M. Singer '69EL retired as president of Philips Research after 35 years with the company. He is now a consultant.

70s

Gabrielle Long '70 '72PH has been named a fellow of the American Association for the Advancement of Science. She was recognized by the AAAS for her "outstanding leadership in the development and application of advanced X-ray and neutron measurement techniques for materials analysis." She is an associate director of the Experimental Facilities Division at Argonne National Laboratory.

Bernard DeMarinis '71EE served as technical editor for the Network Centric Operations and Homeland Security Conference, held in Atlantic City in September.

Robert J. Giorgio '71ChE was promoted to president of CDI Corporation's Business Solutions Group.

Steven Jurow '71ME '72TP is senior director of environmental services for New Jersey Transit and has been married to his wife, Peggy, for 20 years. Both sons are in college.

Nicholas Levinos '71PH teaches in high schools in Hunterdon County, N.J., and volunteers at the Liberty Science Center. He retired in 2000 after 14 years at Bell Labs. His career highlights include working on the Hubble Space Telescope for Perkin Elmer Corp., receiving a patent on molecular isotope separation while at Los Alamos National Laboratory and designing laser systems at TRG Inc. and Holobeam Laser.

William Tyberg '71EE is director of engineering for Capintec Inc., maker of medical instruments and equipment.

Barry Fox '73MA develops software for the blood/plasma industry. He and his wife of 25 years, Cynthia, have two children and live in Northport, N.Y.

Syed Majid '73EE '77MG is, at age 73, a community activist.

Evans Mountzouris '75 '79CE was promoted to director of engineering at the Di Salvo Ericson

Group, Structural Engineers Inc., in Ridgefield, Conn.

Michael Ernst '77ChE was elected vice president of the Union, N.J., chapter of the National Society of Professional Engineers.

Peter McDonough '77CE traveled to South Korea in 2003 as an engineering consultant, assisting Korean gas utilities on safety standards. **Nadiga S. Ramaswamy '77CE** has retired and is settled in Eustis, Fla.

Aaron Stucker '77MA was named dean of the Sciences, Technology, Engineering and Mathematics Division at Prince George's Community College in Maryland. Previously, he was an applied research mathematician for the U.S. Department of Defense.

Christopher Swan '77EV has been promoted to director of municipal relations for the Connecticut Light and Power Company.

Elaina Zucker '77OB received a 2004 Polytechnic Alumni Achievement Award. With executive experience in publishing, academic and communications, she is now president of her own management training and organizational development firm, with offices in the United States and Canada. She is author of three books, including *The Seven Secrets of Influence*, and served on the faculties of Montclair State College, Mercy College, Pace University and Marymount College. **O'Connell (Ben) Benjamin '78EE** has been named director of the Product and Technology Group at AuthentIDate Holding Corp, based in Schenectady, N.Y.

Martin Langan '78HIS is commander of the 1185th Transportation Terminal Brigade, Army National Guard, from Lancaster, Pa. The unit is deployed in the Persian Gulf.

Carlo Basile '79'82EE is president of Scopus Network Technologies, which provided digital video transmission systems for television coverage of this past summer's Olympic games.

80s

Hubert F. Figueiredo '80AE earned an MBA in Technology Management in 2004 from the University of Phoenix.

Joseph Paldino '80SS was promoted to assistant chief procurement officer for cost/price analysis and procurement policy at New York City Transit. Both sons attend Rutgers University, one studying physics and the other accounting.

Frank A. Robertazzi '80EE is vice president of



Rong-Chang Liang '83



Charles Goldberg '91



Y. Thomas Hou '98

worldwide sales and marketing for CML Innovative Technologies in Hackensack, N.J. **Eric Humphrey '83MG** is manager of market research for Hewlett-Packard in Houston, Tex. **Rong-Chang Liang '83 '85PS** was honored with a 2004 Polytechnic Alumni Achievement Award. He is co-founder, chief technology officer and vice chairman of SiPix Imaging. Previously, he worked at the Mead Corporation and at Polaroid, where he developed dry lithographic printing plates and a novel high-speed color thermal printer and media system. His latest invention is an electronic paper, manufactured by the world's first roll-to-roll process, which has been considered a technological breakthrough and was the cover-page story in *Nikkei Microdevice*.

Fadi Chehadé '85CS is chairman and CEO of Viacore Inc. and founder of RosettaNet.

Gustavo V. Da Silva '85TP was promoted to senior manager for regional planning and forecasting at the Long Island Railroad. Da Silva has been with the LIRR since 1991.

Edward M. Knapp '86EE is senior vice president of product marketing and market development for Flarion Technologies, Inc.

Peter Giasemis '87 '91ME is regional vice president of sales for Capstone Turbine Corporation in Brooklyn.

Francis R. Moon '87AE is a senior design engineer for Pratt & Whitney in Connecticut.

Paul J. Sforza '87AE is head of strategic architecture for JPMorgan Chase's Corporate Internet Group. He and his wife, Elba, have a daughter, Arianna Elisa.

John Joseph Zipay '88AE is an engineer at the Johnson Space Center in Houston, where he reports that he is working on the space shuttle tile-repair project in preparation for the 2005 return-to-flight with astronaut **Charles Camarda '74AE** on board.

Gary Stephenson '89EE was recently named vice president of commercial operations at DPL, a regional energy company in Dayton, Ohio.

Suzy Wassef Fahmy '89 '93EE is a senior data network consultant for AT&T and lives on Long Island with her husband of 15 years, Emad.

90s

John J. Hayes '90MG has been named vice president of Beecher Carlson Holdings Inc., a Georgia-based insurance firm.

Christopher Andreola '91Chem is an applications development manager for Cabot Corporation in Billerica, Mass. He and his family recently moved from New Jersey to New Hampshire.

Marie Cancellare-Raser '91ChE is an assistant vice president with EcolSciences in New Jersey. **Charles Goldberg '91EE** received Cisco Systems' Pioneer Technology Award for the delivery of the most innovative technology in 2004. Charles is the product line manager for Cisco's IOS Software Security team. His team created a data encryption networking technology that took home the honor; this is the second year in a row that his team won the award. Goldberg's mother, Mona, has worked for Polytechnic for 27 years in the financial aid office.

Y. Thomas Hou '98EE received a Faculty Early Career Development Program (CAREER) Award from the National Science Foundation for his research on wireless embedded-sensor networks. CAREER grants are the NSF's most prestigious awards for junior faculty members who are considered likely to be the academic leaders of the future. Hou is an assistant professor of electrical and computer engineering at Virginia Tech. While a PhD candidate at Poly, he received the University's Alexander Hessel Award for an outstanding thesis.

Vera Peshchansky Cherepinsky '98MA '99CS recently joined Fairfield University as an associate professor of mathematics. She holds two graduate degrees in mathematics at New York University and specializes in using mathematics to analyze biological data such as gene expression data, and in probe design for genomic hybridization assays.

Adam G. Stein '98ME is a process engineer at Estée Lauder Companies. He married Rose Ann DeCeasare, a school teacher, in November.

00s

John V. Arrabito '01CE began his career at the Port Authority of New York and New Jersey as an intern while a Poly student. He currently works in the resident engineers' office at Kennedy airport. He and his wife, Jane, have a daughter, Katherine Grace, 1.

In Memoriam

Jasper H. Kane '28 H'95
 Edward P. Leopold '33
 Frank E. Stehlik '33 '35
 Kenneth G. Van Wynen '33
 George C. Bishop Jr. '35
 Wilfred C. Morrison '36
 Albert Bartovics '37 '39 '43
 Lewis B. Everett '37
 Joseph J. Jacobs '37 '39 '42 H'86
 Alexander Kalley '37
 Fredrick C. Keck '38
 Gregory J. Coutoupis '39
 John Shavel Jr. '39 '40
 E. Peter Garwood '42
 Chester B. Mayforth '42
 Hal C. Felsher '45
 William J. Stolze '45
 Daniel N. Sharpe Jr. '46
 Murray Klamkin '47
 John T. Lazor '48
 Kenneth M. Skolka '48
 Herman Leibowitz '50
 Alvin F. Matt '50
 Robert F. McNamara '50
 Francis G. Bailey '51
 Erich H. Kraemer '51
 Michael J. Scotti '51 '53
 Donald Sherman '51
 Raymond R. Wittekind '51
 Arthur Hollander '52
 Douglas E. Jacobsen '52
 George J. Kellinger '52
 Isidore Ugelow '52
 Thomas A. Downey '53
 Alfred A. Goldberg '53
 William M. Wooding '53
 Charles L. Best '54
 Joseph A. Vona '54
 Kenneth A. Kun '55
 William M. Menger '55
 John L. Durand '56
 Phillip Godfrey '56
 Ermes A. Moggio '56
 Arthur M. Albert '57
 Thomas V. Greene '57
 Sidney J. Guttman '57
 John C. Dorfler '58
 Richard G. Sickinger '62
 Ronald E. Melcher '63
 Fredrick W. Schaefer Jr. '63
 Domenick Sinacore Jr. '63
 Bernard S. Blum '64
 Hans J. Broner '65
 Peter Shuma Jr. '65
 James E. Moyle Sr. '66
 Edwin Cohen '70
 Don A. Berkowitz '75
 Giem X. Nguyen '81 '83
 Murray Klamkin, faculty
 Nathan Levine, faculty
 Joseph Steigman, faculty

Now you can read and submit class notes online. Visit www.poly.edu/alumni and click on "Class Notes Online."

Meet the new alumni leaders in New York and New Jersey

Max Lee '97 '99CE has been named chair of the Big Apple Alumni Section. Lee works for the New York City Department of Buildings as a plan examiner in Manhattan. He also stays close to his alma mater by serving as an assistant tennis coach. New York alumni interested in being involved should contact him at struct05@hotmail.com.



Johnny Lai '85EE has been appointed chair of the New Jersey Alumni Section, which was recently reactivated. Since graduation, he has been working in the telecommunications industry, subsequently earned a MS in Electrical Engineering and an MBA and currently consults on technology management. New Jersey alumni wishing to join Lai in the leadership of this section or offer support should e-mail him at jlai388@yahoo.com. The group is planning a social gathering in the spring to celebrate Poly's sesquicentennial.



Alumni interested in knowing more about the Poly sections in their area or in starting an alumni section should contact Donald Ivanoff at alumni@poly.edu.

HAS BROOKLYN TECH LOST YOU?



Since many Poly alumni are also graduates of Brooklyn Tech, the high school's alumni association has asked us to pass the word on to any "lost" alumni that their other alma mater wants to hear from them. Brooklyn Tech alumni can visit the association's website at www.bthsalum.org or call the Brooklyn Tech Alumni Office at 718-797-2285 for school news, to update their information and to learn more about the alumni association.

Newman Club reunion

Plans are underway for a 2005 reunion of alumni who were active in the Newman Club, spent summer weekends with the club at Riis Park and/or met at monthly club meetings at the Columbia University library. For more information on the reunion, contact John McDermott at 617-522-2703 or Mary Sartiano Gregory at 508-286-0061 or mmgregory@comcast.net.

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Winter 2005 Vol. 32 No. 1

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Polytechnic Web site: www.poly.edu.

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UPCOMING SESQUICENTENNIAL ALUMNI EVENTS

Friday, March 11 • 5:30 - 10 p.m.
Northern California Alumni Dinner
Computer History Museum
Mountain View, Calif.

Monday, April 4 • 6 - 8 p.m.
Big Apple Young Alumni Social
Union Bar, Manhattan

Golden Jubilee Luncheon -Class of '55
11:30 a.m. - 3:30 p.m.
Saturday, May 21
Brooklyn Campus

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



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