A New Era At Poly

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Classes of ’42 & ’52 Reunite

Joe Jacobs cuts ribbon during building dedication ceremonies on June 13, 2002.
Looking on are, from left, daughters Linda, a Polytechnic trustee; Margaret; his wife, Violet; and daughter Valerie.
Polytechnic has entered a new era, declared President David C. Chang at dedication ceremonies June 13 for a new academic building and athletic center and the University's first residence hall on the MetroTech campus.

"This new residence hall and academic building position Polytechnic to join the ranks of the nation's elite science and engineering schools," Chang said. "Today's celebration marks a major step in the transformation of Polytechnic into a premier university that will educate and support the leaders of tomorrow in a world that is increasingly driven by technology."

The transformation has been made possible by the successful completion of the Campaign for Polytechnic—Fulfilling the American Dream, which raised $275 million, including an extraordinary $175-million bequest from Professor Donald E. Othmer and his wife Mildred, and a $20-million gift from Dr. Joseph J. Jacobs '37 '39 '42 H'86, a Polytechnic lifetime trustee and founder of Jacobs Engineering Group Inc., and his wife, Violet. The Jacobs gift—the second largest contribution ever to Polytechnic—included a $10-million challenge in which the Jacobses matched new campaign gifts from other donors.

The new buildings are part of a $130-million capital improvement project, including a $223-million renovation of Rogers Hall, the University's academic hub, and an $8-million communication systems upgrade.

The new $43-million, eight-story, Joseph J. and Violet J. Jacobs Building houses advanced laboratories, state-of-the-art "smart" classrooms wired for the latest internet and multi-media technologies and a full multi-purpose gymnasium.

Speaking at the dedication, Jacobs said, "This University gave me the intellectual foundation and the drive to achieve my American dream."

Stewart C. Nagler '63, vice chairman and CFO of MetLife Inc. and chairman of Polytechnic's Board of Trustees, lauded the Jacobses for their support of Polytechnic.

"The Jacobses' gift gave the capital campaign a tremendous boost," Nagler said. "It inspired an outpouring of gifts from thousands of Poly alumni and friends that culminated in the most successful fundraising campaign in Polytechnic's history."

Jacobs, joined by his wife and family members, spoke emotionally about his alma mater and support for the University.

"I did what I did because I had to do it," he said. "I was blessed with a wonderful background, with parents who taught me ethics, respect and service to one's fellow man."

Representatives from the public and private sectors participated in the dedication ceremonies, including Brooklyn Borough President Marty Markowitz, who presented a proclamation to the Jacobses naming June 13 as "Jacobs Recognition Day in Brooklyn."

Charles A. Gargano, chairman of the Empire State Development Corporation, noted that technology will continue to be the driving force behind New York's economy. "As Dr. Jacobs is a prime example," he said, "Polytechnic has and will continue to produce entrepreneurs and leaders in science and technology."

Bruce C. Ratner, president and CEO of Forest City Ramin Companies, the developer of MetroTech Center, commended Jacobs and Dr. George Bugliarello, Poly's chancellor and former president, for their leadership and vision in the conception of MetroTech more than two decades ago. He also cited Chang for leading the transformation of Polytechnic.

Andrew M. Alper, president of the New York City Economic Development Corporation, saluted Chang and the Board of Trustees, noting, "Polytechnic continues to play a leading role in the economic and social renaissance of Downtown Brooklyn."
Joe Jacobs gets a round of applause shortly after cutting ribbon to open the new building named in honor of him and his wife, Violet.

**Othmer Residence Hall Opens**

The University also dedicated its first residence hall on the Metro-Tech campus, a $45-million, 20-story, 400-bed building honoring the school's greatest benefactors, Donald E. and Mildred Topp Othmer. In 1998, the Othmers' bequest was the largest cash gift ever to a private American university. Donald Othmer, a famed chemical engineer, taught at the University for over four decades.

Gerhard Frohlich '57, a friend of the Othmers and a former student of Dr. Othmer, recalled the couple: "Mild and..."

Joe and Violet Jacobs peak at the portrait that will hang in the new Jacobs Building. The painting was unveiled at the dedication ceremony.

Don were devoted to each other," he said. "I know they would be proud of Polytechnic's confident progress into the future, largely as a result of their generosity and foresight."

Chairman Nagler evoked memories of Poly as a commuter school: "We took the bus or train, attended classes and then were off studying," he said. "But thanks to the Othmers, the University will now attract the next generation of leaders in science and technology not just from New York, but also from across the nation."

President Chang noted that the memory and spirit of the Othmers will live on at Poly for countless generations to come. "Their generosity will forever be rooted in Poly's illustrious history," he said. "We are indeed indebted to them."

A painting of Donald E. and Mildred Topp Othmer will grace the University's new residence hall. From left: Trustees Clifford H. Goldsmith and R.William Murray H'94; Ellen E. Haragan, vice president, student affairs; Stewart G. Nagler '63, chairman, Board of Trustees; Amy Sabatelle '83, president, Student Council; Dr. David C. Chang, president, Polytechnic University. Anthony Trotta '83, president, Student Government; and Dr. Gerhard J. Frohlich '57, a student of Othmer and family friend.
Dean Kamen, World-Famous Inventor, Urges Poly Grads To Never Give Up

Dean Kamen, one of the world's foremost inventors of medical devices, urged Polytechnic's Class of 2002 to work on important problems in the world and never give up on the search for solutions.

Kamen, founder and president of DEKA Research and Development Corporation, told the graduates to get involved with life. "While you will make your living as engineers," he said, "success in life is doing a broader range of things."

Kamen delivered his address at Polytechnic's 147th Commencement, held June 3 at Avery Fisher Hall, Lincoln Center. He received an honorary Doctor of Engineering degree.

President Dr. David C. Chang congratulated the graduates on their hard work and perseverance and reminded them that their education is not over. "I challenge you to continue to grow intellectually," Chang said. "Continue to learn and continue to try thinking outside the box because technology keeps evolving, and keeps becoming obsolete sooner than anyone of us would wish."

Aleksandra Kocic, who earned a bachelor's in chemical engineering with a GPA of 3.9, delivered the valedictory address, advising the graduates that the key to success is not individual effort. "We owe a lot of our success to our friends and loved ones," she said, "because without them we would not be sitting here today."

Khury J. Alexander, who received a dual BS/MS degree in Computer Engineering with a GPA of 3.8, was awarded the Outstanding Graduate Award by the POLYTECHNIC ALUMNI. The Distinguished Teacher Award was presented to Dr. Magued G. Iskander, associate professor of civil engineering.

Dick Eden '73, out-going president of the POLYTECHNIC ALUMNI, welcomed the new graduates into the ranks of the University's 38,000 alumni and installed the latest members of the Golden Jubilee Society, Class of 1952.

Polytechnic awarded an honorary Doctor of Science degree to Dr. Paul Horn, senior vice president and director of research at IBM, and an honorary Doctor of Engineering degree to Dr. John Brooks Slaughter, president and CEO of the National Action Council for Minorities in Engineering.

The ceremony culminated with the conferring of 352 bachelor's, 439 master's and 31 PhD degrees.

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\text{Above: Dr. David C. Chang presents honorary degree to Dr. John Brooks Slaughter. Above Right: Dr. Paul M. Horn accepts his honorary degree.}
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NATIONAL SECURITY AGENCY NAMES POLY A CENTER OF ACADEMIC EXCELLENCE IN INFORMATION ASSURANCE EDUCATION

The U.S. National Security Agency (NSA) has designated Polytechnic as a Center of Academic Excellence in Information Assurance Education. Polytechnic is the first University in New York State to receive the designation.

The agency program is designed to reduce vulnerabilities in the national information infrastructure by promoting higher education in information security and training professionals with information assurance expertise in various disciplines.

Dr. Nasir Memon, associate professor of computer science and an expert in cyberspace security, will direct the center. Much of the research will take place in Polytechnic's new Information Systems and Internet Security Laboratory, where current areas of research include steganography, digital water-marking and computer and network security.

Polytechnic joins 36 universities across the country that have received the NSA center of excellence designation, including the U.S. Military Academy at West Point and the Air Force Institute of Technology. Universities designated as centers are eligible to apply for scholarships and grants through the federal Information Assurance Scholarship Programs.

NSA is the nation's cryptologic organization. It coordinates, directs, and performs highly specialized activities to protect U.S. information systems and produce foreign intelligence information. NSA is also one of the most important centers of foreign language analysis within the government.
PROMISE FUND Raises Nearly $1 Million, Honors Richard J. Bressler and Herbie Hancock

Nearly 500 people attended the Promise Funds 14th Annual Dinner on June 11, where Polytechnic honored Richard J. Bressler, senior vice president and CFO of Viacom, and Herbie Hancock, an Academy and Grammy Award-winning musician and composer. The black-tie gala at Manhattan’s Waldorf-Astoria raised over $1 million toward scholarships and pre-college outreach programs at Polytechnic.

Bressler was presented with Polytechnic’s 2002 Distinguished Service Award for Technology and the Arts. Hancock received a 2002 honorary Doctor of Engineering degree from the University. In accepting his degree, Hancock praised the audience for helping young people fulfill their dreams. “It’s people’s hearts that move the age,” he said. “And wisdom moves people’s hearts. We tend to be dazzled by knowledge and data in the world we live in today. But if that knowledge is not guided by compassion, we have no wisdom. Serving humanity is what technology is all about.”

Since its inception in 1988, the Promise Fund has raised more than $11 million to provide scholarships for more than 1,000 students and to support Poly’s Center for Youth in Engineering and Science (YES), which develops programs to encourage middle- and high-school students, especially minorities and women, to study science and engineering.

The 2002 Promise Fund Dinner Chairs were Trustee Rachelle Friedman ’71, president, J&J. Music and Computer World; Clifford Goldsmith, Polytechnic Board vice chairman and principal. Prudential Company; Stewart G. Nagler ’63, Polytechnic Board chairman and vice chairman and CFO, MetLife Inc.; Trustee Dr. Laura Parsons, psychologist; Richard Parsons H’98, CEO, AOL Time Warner Inc.; Ivan G. Seidenberg H’99, president and CEO, Verizon; Henry J. Singer H’04, Promise Fund Board chairman; Polytechnic Board vice chairman and president, Ray-Nis LLC; and Trustee Jerome Swartz ’63 ’69, chairman and CEO, Symbol Technologies Inc. Dinner co-chairs were Andrew F. Bach, vice president, communications engineering planning and development, New York Stock Exchange Services, SIAC; Trustee Henry L. Bachman ’54 ’54, director, technical marketing, advanced systems, BAE SYSTEMS; Ruth Fattori, executive vice president, process and productivity, Converse Inc.; and Trustee Craig G. Matthews ’71, retired vice chairman and COO, KeySpan Energy Inc.

WEB SITE RECEIVES THIRD GOLDEN WEB AWARD AND MTA CONTRACT

For the third time, Poly’s Web site (www.poly.edu) received a Golden Web Award from the International Association of Webmasters and Designers in “Recognition of Creativity, Integrity and Excellence on the Web.” The site previously received the award in 1999 and 2000.

The team responsible for Poly’s Web site comprises three full-time staff, led by Webmaster Jim St. Lawrence, and approximately 23 work-study students. “For students, being a member of the Poly Web team enhances their Internet and web knowledge,” says St. Lawrence. “They hone their skills to such a degree that when they graduate they are in high demand with employers.”

Polytechnic’s Urban Intelligent Transportation Systems Center, a 15-month, $35,000-grant to develop, design and implement a traffic Webcam site for New York City’s Metropolitan Transportation Authority (MTA). In the past, the team successfully developed and implemented a similar site for the New York City Department of Transportation.

Webmaster Jim St. Lawrence, back row center, with his team: back row, Cynthia Feng, systems administrator and Christopher Hayes, director of multimedia productions—deputy webmaster. Middle row from left, students Yelena Shykel, Cheri Feng and Zees Aviles. Front row from left, students Jia An, Chen and Chao Wang.

Web team students are also gaining real-life work experience. As part of the Web team, they service all University departments and research centers, and have the opportunity to work with outside contractors.

Recently, the Web team was awarded, through Polytechnic’s Urban Intelligent Transportation Systems Center, a \$35,000-grant to develop, design and implement a traffic Webcam site for New York City’s Metropolitan Transportation Authority (MTA). In the past, the team successfully developed and implemented a similar site for the New York City Department of Transportation.
MAGUED G. ISKANDER: Seeing Through Soil

Transparent soil sounds oxymoronic, but don't tell that to Dr. Magued G. Iskander, who is leading the research effort at Polytechnic to develop a method to measure three-dimensional movements and stresses in soils.

Iskander, associate professor in the Department of Civil Engineering and the coordinator of Poly's Geotechnical Engineering Program, is quick to point out that the current methods to measure deformation patterns within a soil mass just don't exist, noting, "We can only measure distortions or flow patterns at the boundaries of a soil mass."

Working in Polytechnic's new Soil Mechanics Laboratory, Iskander is developing the technology to measure movements and stresses inside a soil mass. He is using surrogate transparent soil that can accurately model the geotechnical properties of natural soils. Surrogate soils are made from transparent silica, mineral oil and solvents. Using optical techniques, including a digital camera and a laser light sheet that is used to slice a transparent soil model, Iskander has been able to obtain clear images of deformation inside a soil mass in scaled-model tests.

"Polytechnic is the uncontested leader in this new technology," says Iskander. "The development of transparent synthetic soils that mirror the characteristics of natural soil, and the use of optical visualization techniques will have a profound effect on geotechnical engineering. For the first time, we are literally able to see how a soil model behaves, instead of inferring its behavior from measurements taken at the boundary."

Iskander notes that transparent soils can be used to study many geotechnical problems, including deformations of tunnels, embankments and retaining structures. Transparent soils can also be used to visualize the flow of industrial pollution in soils. They can be used, for example, to study the repair of contaminated aquifers and to monitor the recovery of leaking and spilled petroleum products.

Distinguished Teacher Award

Iskander earned his doctorate from the University of Texas at Austin and joined the faculty in 1995. He was honored with the University's 2002 Distinguished Teacher Award, which includes a Jacobs Innovation Award. The award is in honor of Dr. Joseph J. Jacobs '37 '39 '42 H'86, a Polytechnic lifetime trustee and the founder and chairman of Jacobs Engineering Group Inc., one of the world's largest engineering and construction firms.

Mayor Appoints Polytechnic President David C. Chang to NYC Panel for Educational Policy

Mayor Michael R. Bloomberg has appointed Polytechnic President David C. Chang to serve on a 13-member New York City Panel for Educational Policy, established by new school-governance legislation to replace the current Board of Education. Bloomberg appointed seven members to the panel and will appoint a new schools chancellor as chair. Each borough president will appoint a member to complete the panel. All appointees, except the chancellor, are volunteers, receiving no salary.

At a July 18 press conference at which the appointments were announced, Chang said, "As an immigrant as well as president of a technological university in New York City, I can appreciate the importance of an educational system that is able to produce the knowledge workers who can sustain New York and New York's vitality. We need a healthy and strong public school system to serve and capture the talents of underserved minority groups. I look forward to working with the future chancellor."

Bloomberg's other appointments are Philip A. Berry, vice president of global employee relations at Colgate-Palmolive; Ramona Hernandez, associate professor and director of the Dominican Studies Institute at CUNY; Augusta Souza Kappner, president of the Bank Street College of Education; Susana Turaulde Local, director emeritus of El Museo del Barrio; Richard L. Menschel, senior director of Goldman Sachs; and Marta Regan, former principal of Public School 22 and review supervisor for Performance Assessment in Schools Systemwide (PASS) in District 22.

Polytechnic Receives $3-Million NSF Scholarship Award

Polytechnic has received a $3-million, four-year NSF Federal Cyber Service “Scholarship for Service” (SFS) Award, which provides scholarships to students pursuing advanced studies in information assurance and security. Currently, only 10 schools in the country are recipients of the scholarship award.

Polytechnic is the only school in New York State. Starting this fall, 10 Poly students will receive an SFS award. The scholarship covers full tuition and academic fees, a monthly stipend and partial room and board expenses and reimbursement of education-related expenses. Students will have the opportunity to intern with federal agencies and upon graduation will be required to work for the federal government on a basis of one year of service for each year of scholarship education received. The principal investigator for the award is Dr. Nasir Memori, associate professor of computer science. Professor Phyllis G. Frankl and Assistant Professor Gleb N. Nenovitch are co-principal investigators.

Poly Launches Public Safety and Security Forums

On April 18, Polytechnic's Urban Security Initiative and Center for Fire Safety Engineering co-launched the first in a series of forums to address the role of technology in public safety and security. The inaugural forum explored issues of communications and information management faced by firefighters and other emergency personnel battling urban disasters. Attending the forum, Nicholas Scopetta, commissioner of the
LEMELSON SCHOLARS INDUCTED
Dorothy Lemelson, left, lights Suisheng Mo's candle on May 7 during an induction ceremony and luncheon for students in the Lemelson Scholarship Program. Lemelson, widow of inventor Jerome H. Lemelson '47 '49 H'55, established the $200,000 annual scholarship program in 2000 to assist working students with educational expenses. Lemelson said she is "inordinately proud of the students, who exemplify the best this country has to offer." Also pictured are, from left, William Sinderbrand, Diana Yung and Oksana Vaskobrysik.

POLY 100
More than 60 guests at the annual Polytechnic '100 Dinner heard Trustee Paul Crotty, group president, New York and Connecticut, Verizon Communications, discuss how his company responded to the 9/11 terror attacks on the World Trade Center after its communications network was destroyed. The group, which met at the University Club in Manhattan on May 22, contributes a minimum of $50,000 over five years and is the University's premier donor group.

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New York City Fire Department, said, "I majored in engineering in college, and I can tell you we need to develop and apply new technology to fire fighting." Also attending was Joseph Pfeifer, battalion chief of the New York City Fire Department and the first chief on the scene of the World Trade Center attack (he was featured in the television documentary "9/11"). Pfeifer lost his brother, Capt. Kevin Pfeifer, in the WTC disaster.

Crotty Appointed to WTC Rebuilding Board
Polytechnic Trustee Paul A. Crotty has been appointed to the Lower Manhattan Development Corporation Board. The board will draft a master plan for the future of the World Trade Center site to be submitted to New York City Mayor Michael R. Bloomberg and New York State Governor George E. Pataki. Crotty is group president for New York and Connecticut at Verizon Communications.

Polytechnic Hosts NYC Science and Engineering Fair
More than 185 area high school students competed in the annual New York City Science and Engineering Fair held in Brooklyn on March 13. From among the competitors, 18 students were selected to be the official New York City delegation to the 2002 Intel International Science and Engineering Fair, considered the Olympics of science competitions. The NYC fair was sponsored by Poly's Center for Youth in Engineering and Science (YES Center) and David Packard Center for Technology and Educational Alliances in collaboration with the New York City Board of Education and the New York Academy of Science.

Liu Foundation Announces $100,000 Gift to YES Center
The Liu Foundation has announced a $100,000 gift to the YES Center. The money will be used to purchase notebook computers for high school students enrolled in the YES Centers College Preview Program. The College Preview Program offers introductory college courses to outstanding high school students, Students are exempt from University tuition and earn college credits for each course completed successfully.

The Liu Foundation is headed by Arthur Liu and his wife, Yvonne, a member of Polytechnic's Prominent Fund. The Liu's own Multicultural Radio Broadcasting Corporation Inc. in New York.

C++ Creator Bjarne Stroustrup Cites Efficiency as Key to Programming
Bjarne Stroustrup, creator of the C++ programming language, spoke about multi-paradigm programming to a standing-room-only audience in the DiBner Auditorium on April 19. C++ has gained enormous popularity in the last decade for its ability to support object-oriented and generic programming techniques in such applications as user interfaces and embedded systems where efficiency is paramount. Stroustrup suggested that programmers streamline their language to achieve efficiency. Stroustrup is head of AT&T Laboratories' Large-scale Programming Research Department and author of five books, including the best-selling The C++ Programming Language. The Poly lecture was sponsored by the University's ACM student chapter.
For Ray Katzen, It's a Wonderful Life

The year was 1931 and Raphael "Ray" Katzen '36 '38 '42 was a senior at DeWitt Clinton High School in the Bronx, when he first heard the words chemical engineer. "I didn't know what a chemical engineer was," Katzen recalls with a laugh. "I wanted to be a civil engineer, but a teacher at Clinton, Philip Breadhurst, who was a Poly alumnus, gave me the best advice of my life: 'Study chemical engineering and study at Poly.'" And Katzen did just that, launching a career that for over six decades would see him founding his own company, being awarded numerous patents and awards and earning national acclaim as a chemical and biochemical engineer, including election to the National Academy of Engineering in 1996.

Katzen, 87, is the founder and former chairman of KATZEN International Inc., formerly Raphael Katzen Associates International Inc. He is proud of the technological breakthroughs developed at the process-engineering firm that bears his name. Katzen assisted the federal government with its first lunar landing by developing a process for a client, Air Products and Chemicals Inc., to purify and transport liquid hydrogen for rocket fuel. The company is also responsible for technical innovations that made ethanol a competitive gasoline component.

KATZEN International has operated on six continents and designed plants for a variety of industries, including pulp, sugar, chemical, pyrolysis, agriculture, biochemical and petrochemical. Katzen retired four years ago, but still consults for companies developing new technologies to produce fuels and chemicals from biomass. "I've come full circle," Katzen notes. "That's how I started out over 60 years ago."

Katzen was born in Baltimore, Md., and raised in the Bronx. He enrolled at Polytechnic—then called Polytechnic Institute of Brooklyn—in 1932. As the Great Depression swept the nation, Katzen was forced to drop out of school. "I was a poor boy working for a living while I studied," he recalls. "I had to leave school in 1933, when I became the sole wage earner for my family."

The following year he returned to Poly and met the man who would have a major influence on his career, Dr. Donald F. Ottoerer.

Friendly with another professor, Dr. Raymond Kirk, Katzen asked him for advice on finding a job. "Kirk told me to go see a new professor named Othmer," Katzen recalls. "When I told Othmer I was looking for work, he handed me a brown and told me to go clean the attic."

Katzen says with a smile. "That was the start of our relationship."

Katzen later helped edit the first edition of the landmark Kirk-Othmer Encyclopedia of Chemical Technology as well as many of the professor's articles. Othmer also helped Katzen land his first job after graduation in 1936.

"Donald Othmer gave me practical advice and a lifetime of guidance," Katzen says. "He was my teacher, mentor and friend."

Looking back on his Poly days, Katzen marvels at the tremendous faculty who were grants in their field and his education at the University. "Poly gave me an exceptional basic background in science and engineering," he says. "In addition to studying chemistry and chemical engineering, I had the opportunity to take mechanical, electrical and civil engineering courses. I even studied atomic physics. That training benefited me in my future work in plant design and construction."

Katzen, living in Florida, with his wife and business partner, Selma, stays active with his consulting practice and dotes on his grandchildren and three great grandchildren. "It's a wonderful life," he says. "I'm lucky."

AFTER FIVE DECADES AT POLY, PROFESSOR MORAVETZ REFUSES TO SLOW DOWN

Even though he officially retired as university professor 16 years ago, Dr. Herbert Moravetz, 86, refuses to slow down. He still puts in full days at Poly, where he collaborates with another professor on polymer science research. He is in his 11th year as associate editor of the American Chemical Society's (ACS) Macromolecules and continues to lecture worldwide.

Polytechnic has been Moravetz's academic home since he arrived as a chemistry graduate student 55 years ago. "My wife, Kathleen, persuaded me to go to graduate school," he says. "She was studying for her doctorate in math and was concerned that it would be bad for our marriage if she outranked me." At the time, Moravetz, a Czech immigrant who escaped the Nazi invasion only eight years earlier, was a research chemist at the Bata Shoe Company after earning degrees in chemical engineering from the University of Toronto. Many of his classes in polymer chemistry at Poly were taught by Professor Turner Allen, his thesis adviser, whom he recalls as "an inspiring teacher." After earning his PhD in 1950, Moravetz completed a postdoctoral fellowship at Harvard Medical School and then sought work.

"Luckily for me," he says, "Allen was leaving Poly to join Dow Chemical and suggested that I take his place." Moravetz also had a job offer from General Electric, which was able to weigh the pros and cons of an academic career. "An advantage," he recalls, "was collaborating with [the renowned polymer chemist and Poly professor] Herman F. Mark, and a disadvantage was the necessity to teach. It turned out to be exactly the other way: I never collaborated with Mark, and I loved to teach."

Moravetz taught at Poly from 1951 to 1981 and guided 57 students to their doctorates by the time he retired in 1986. He served a decade as director of the Polymer Research Institute, published over 200 research papers, wrote the books Macromolecules in Solution and Polymers: The Origins and Growth of a Science and received an ACS Award in Polymer Chemistry in 1986.
In Memoriam

Athanasios Papoulis

University Professor Emeritus Athanasios Papoulis, a prominent author and passionate educator for four decades, died April 25 in Huntington, Long Island. He was 81.

Born in Greece in 1921, Papoulis received degrees in electrical engineering and mathematics at the National Technical University in Athens and the University of Pennsylvania. He joined Polytechnic in 1952 and retired in 1994.

Papoulis distinguished himself in the scientific community for his more than 150 scholarly papers and nine books, including the classic Probability, Random Variables and Stochastic Processes, first published in 1965 and considered the standard textbook in the field. Among his honors, he received IEEE’s James H. Mulligan Jr. Education Medal, Germany’s prestigious Humboldt Research Award and three honorary degrees from European universities.

To the Polytechnic community, Papoulis was a memorable figure on campus, known for his dramatic lectures and creativity in incorporating mathematical ideas into electrical engineering.

"Professor Papoulis was a human dynamo," recalls former student Charles M. Rader '60 '61, a senior staff member of MIT's Lincoln Lab. "He had this wonderful way of bringing mathematics to life, whether by relating a geometrical diagram to a real-life situation, or by outrageous claiming to know Greek mathematicians from the first millennium."

Although known for his scientific intellect, Papoulis also loved the arts, especially music and the theater. "My father often said that if he had another career it would be as an actor," says his daughter Irene. "He was proud when people said that his lectures were performances."

Papoulis's twin loves of education and the arts influenced his five children: Irene, a professor at Trinity College; Helen, a kindergarten teacher in California; James, a composer in New York; Allen, a dancer in Slovenia; and Mary, a violinist in Montana. He is also survived by his sister, Eleftheria, and brother, Aikaterini; and six grandchildren.

Morris Morduchow '44 '45 '47

Professor Emeritus Morris Morduchow died May 27 in Keene, N.H. He was 80.

Morduchow, a native of Russia, came to Poly in 1942 to study aeronautical engineering after earning a bachelor's degree in mathematics from Brooklyn College. He stayed 47 years. After receiving a bachelor's, master's and PhD at Poly, he taught mathematics before moving, in 1961, to the Department of Aerospace Engineering. He retired in 1989.

A recognized expert in applied mechanics, he received New York Academy of Sciences’ I.B. Laskowitz Award in 1980. He was also active in various Poly organizations, including serving as associate director of the alumni association in the late 1970s and president of the student chapter Sigma Xi and treasurer and faculty adviser of the student chapter Tau Beta Pi honor society.

He is survived by his wife, Arlene.

Kalinath Mukherjee

Dr. Kalinath Mukherjee, a former Polytechnic professor and department head, died May 18 in Okemos, Mich., from complications of Parkinson's disease. He was 70.

A native of Calcutta, India, Mukherjee immigrated to the United States when he was 25 and earned his doctorate in physical metallurgy at the University of Illinois. He joined Polytechnic in 1967 and served as head of the Department of Physical and Engineering Metallurgy from 1974 to 1980. He then moved to the College of Engineering at Michigan State University, where he chaired its Department of Metallurgy, Mechanics and Material Science from 1985 until he retired in 1998.

He is survived by his wife, Patricia, and children, Jami and Maia.
ENGINEERING IS COOL, TOO

For a society that depends on technology as the United States, we wonder why high school graduates have such little interest in pursuing engineering careers. The image of the "mad scientist" or "nerd" is certainly not the image high school seniors are seeking. We can blame the entertainment industry for steering "cool" teenagers away from technical fields, depicting scientists and engineers as people who are not socially useful. As a result, many think that science and engineers are "uncool" and unfashionable.

As a profession, engineering has tough competition from law, medicine and business, all of which are socially accepted as successful professions. We face a challenge in recruiting and promoting engineering careers because the competition with law, medical and business careers is indeed stiff. In addition to receiving high pay and status, lawyers, doctors and business executives seem to portray the "cool" image that youth desire. Are you aware of any movie or TV program that features "cool" engineers? As a society, we place too much emphasis on "being cool" rather than "being sharp." The only way to achieve fair competition between technical fields and law, medicine and business is to encourage society to value and respect engineering as a career. We must reject the stereotype that engineers do only technical work. Many of us apply our engineering expertise to a variety of fields and bring other fields to bear on our own.

More than ever, we need more teachers who are engineers, we need more corporate managers who are engineers and we need politicians who are engineers.

Technology is the driving force to improve productivity in all aspects of business life, and an engineering degree is an excellent preparation for careers of the future. Engineering is one of the most challenging college programs, and someone who successfully completes it is certainly someone who is prepared to handle almost any job.

Perhaps it is time to broaden the sight of high school graduates to include the engineering profession and tell them that in a short four years they can apply what they learn to any job that comes their way.

You can help change the image of engineering. Please look at the notice below asking for your help in recruiting high-caliber students for Polytechnic. I’m confident that your participation in this program will be a positive experience for you and the future of engineering.

This is my last column as president of the POLYTECHNIC ALUMNI. It has been an exciting two-year journey. Thank you for the privilege of serving you. Thank you to the Polytechnic administration and the Office of Alumni Relations for helping me during my tenure. Special thanks and fond remembrances to the late Gill Marshall. She was always there for me, helping to ensure our alumni were well served.

RUSSO ALUMNUS OF THE YEAR

James J. Oussini Jr. ’77, left, president-elect of the POLYTECHNIC ALUMNI, presented Orofino (Nick) Russo ’73 with the Big Apple Section’s Alumnus of the Year Award at the June 6 annual meeting and dinner. Russo, who recently stepped down as president of the Big Apple Section, was cited for his six years of leading the association’s largest and most active chapter and for his continuing devotion to Polytechnic students and engineering education. During the annual meeting, members of the Class of ’77 were inducted in the Silver Jubilee Society. Visit the Recent Events section of www.poly.edu/alumni to see more photos from the event.

CALLING ALL ALUMNI: Get Involved in Recruitment!

The Office of Admissions welcomes alumni participation in recruiting students. Poly is describing its recent transformation to high school students across the nation. Help us tell Poly’s story in your locality. The Office of Admissions has a list of schools on which Poly should focus, and events at which Poly should be represented. Would you be able to join Admissions staffers at “college fairs” or “college nights” at high schools in your area? This activity can be fun and an effective way to help the University. Training is provided.

Please contact Donald N. Ivanoff Jr., director of alumni relations, at 718/260-3424 or alumni@poly.edu.

New Officers and Directors of the POLYTECHNIC ALUMNI

The following alumni were elected during POLYTECHNIC ALUMNI’s annual meeting and dinner on June 6:

President: James J. Oussini Jr. ’77
Executive Vice President: Thomas A. Mauro ’67
Vice President: George Lilouzros ’92 ’92
Treasurer: Luther L. White ’87
Secretary: Elizabeth Crelin ’98

International Board of Directors: Edward T. Barron ’66, Norbert M. Bika, ’56 ’61, Kuang-Chih (Frank) Huang ’71, Philip H. Spilberg ’77, David L. Sobin ’72 ’72 and Seiichi Takeuchi ’69.
SCALING NEW HEIGHTS:
Chiu Kun Wu Sees Mount Everest—Up Close

For a woman who’s never climbed before, Chiu Kun Wu ’97 ’01 set her sights soaring last year with a trip to the highest peak in the world—Mount Everest. This quest wasn’t an Nso Thin Aii expedition, however. Her goal was to climb to Everest Base Camp, which at 19,000 feet is the highest point one can reach on foot without climbing gear.

The adventure began in late spring, when Wu, a traffic engineer at Volmer Associates, made the 7,500-mile journey with two friends from New York to Kathmandu, Nepal. From there, they flew to the village of Lukla, perched above the Dudh Kosi, or “River of Milk”—so named because glacier melt-water makes it appear pale—and met their Sherpa guide, who explained local culture and customs as they traveled.

For Wu, who earned degrees in civil engineering, the trip was a time for reflection and peace. “Most times on the trails,” she says, “you only sound of the bells tied to yakas. I quickly learned that when you hear the bells, move quickly to the side of the mountain to avoid being pushed off the narrow trail.”

At night, she stayed in basic huts called tea houses with no electricity. “The moon and stars provided the only light and it felt like being in a planetarium,” she says. “The sight of Everest at night is both scary and fascinating; it seems so close yet it’s so far away.”

Eight days into the trip, Wu’s group reached Lobuche at 16,175 feet, and featuring views of the Khumbu Icefall. The next morning, they woke at 3:30 in chilly and pitch-black darkness to walk the five hours to Base Camp. “We had been told that the best view of Everest was when the sun is about to rise and before fog sets in,” she explains. “We caught our view for about a half hour before clouds again swallowed the mountain.”

On her last day in Nepal, as she boarded her flight for home, Wu made a pact with herself to lead a more tranquil life. “However,” she says, “within a week, the stress came back. Here in New York, you can do things 24 hours a day; on Everest you can only do things during daylight hours. Therefore, you’re forced to relax.”

POLYTECHNIC ALUMNI WIN TOP HONORS AT IEEE ANNUAL AWARDS

Polytechnic alumni captured the lion’s share the IEEE Long Island Section’s 2002 Annual Awards Ceremony, garnering seven of the 12 Region 1 Awards. The awards recognize outstanding individual contributions in electrical engineering.

Among the recipients was Henry L. Bachman ’51 ’54, IEEE fellow and Politechnic advisory trustee, who received the association’s prestigious William Terry Distinguished Lifetime Service Award. Dr. Gerard A. Alphonse ’57, IEEE Region 1 director and program manager for the Saroff Corporation, was a keynote speaker for the evening’s events.

The University congratulates its alumni listed below on their accomplishments:

Electrical Engineering Management Award
Paul M. Eyring ’87 ’90—for managerial excellence in leading the design and development of advanced technology including wide-band circular array interferometers.

New Technical Concepts in Electrical Engineering Awards
Shahzad Alizai ’81 ’84—for creative contributions to digital signal processing related to radar, radiometric and E.W. systems.

Donald Neuf ’76—for state-of-the-art innovations in frequency mixers and other diode-based microwave circuits.

Charles Verbeke ’83—for technical leadership in developing the Digital IFF Interrogator that enhanced BAE SYSTEMS Advanced Systems Division’s position as a world leader in IFF products.

Charles Hirsch Award

William Terry Distinguished LifeTime Service Award
Henry L. Bachman ’51 ’54—for extraordinary leadership, hard work and inspiration in a wide range of IEEE activities over a period of more than 40 years.

Harold Wheeler Award
Edward M. Newman ’73—for technical leadership in the development and implementation of an antenna/radio system for small craft that is compliant with the United Nations Ottawa Landmine Treaty and that will provide BAE SYSTEMS access to a $1 billion market worldwide and for long-time leadership of the Wheeler Lab Group.

IN MEMORIAM

Gillian-Pamela Marshall

As administrative assistant in the Office of Alumni Relations for the past three years, Gillian-Pamela Marshall was a constant source of information and cheer for hundreds of alumni wanting to connect with their alma mater. On April 8, she died suddenly of heart failure attributed to acute leukemia. She was 40.

Marshall was born in Trinidad, West Indies, and grew up in Brooklyn. At her wake and funeral—attended by more than 50 Poly alumni, employees and students—friends and family reminisced about her love of baseball, especially her passion for the Yankees, and her dedicated support of charities and homeless shelters. They also talked about her devotion to her 14-year-old son, Kai-Drew. She is also survived by her father, Albert Wheeler, brother, Randy, Marshall, and numerous aunts and cousins.

The POLYTECHNIC ALUMNI is establishing an award in Marshall’s name to be given to a Poly student who contributes to alumni outreach. Contributions to the award fund may be sent to Office of Alumni Relations, Six MetroTech Center, Brooklyn, NY 11201.
HELP PLAN YOUR REUNION

Members of the Classes of '53, '63, '78 and '93 who are interested in helping plan their reunion events should contact Donald N. Ivanoff Jr., director of alumni relations, at 718/260-3424, or e-mail him at alumni.poly.edu.

CHARITABLE ANNUITIES:
Why They Should Be Part of Your Retirement Portfolio

As many Polytechnic alumni will tell you, a charitable gift annuity is one of the best ways to guarantee future fixed income for yourself, your spouse or a family member while providing support for the charitable organization of your choice. These features proved so attractive to Ennio E. Hager '43 that last year he established a $1-million charitable annuity for the benefit of Poly.

"It seemed like an excellent way to provide a guaranteed lifetime income for my wife after my death," says Hager. "The fixed rate of return is five or six times better than the rates offered at the bank, the tax savings were considerable, and can be used, if desired, to make additional annual contributions to the University and create further tax savings. In today's unstable financial market, a charitable annuity is an ideal investment vehicle for the retired person and the perfect addition to my retirement portfolio."

For as little as $50,000 in cash or marketable securities, you can establish a gift annuity and receive an annual payment, which is based on your age at the time that the annuity is established and on the corresponding fixed income rate. Rates are slightly different for a two-life gift annuity where the fixed income is paid to more than one person.

GIFT ANNUITY CHART
The following are estimates based on a gift of $50,000 (figures are subject to change).

<table>
<thead>
<tr>
<th>Age</th>
<th>Annual Fixed Income Rate</th>
<th>Charitable Deduction</th>
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<tbody>
<tr>
<td>60</td>
<td>6.4%</td>
<td>$13,325</td>
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<tr>
<td>65</td>
<td>6.7%</td>
<td>$15,641</td>
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<tr>
<td>70</td>
<td>7.2%</td>
<td>$17,867</td>
</tr>
<tr>
<td>75</td>
<td>7.9%</td>
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</tr>
<tr>
<td>80</td>
<td>8.9%</td>
<td>$22,482</td>
</tr>
<tr>
<td>85</td>
<td>10.4%</td>
<td>$24,643</td>
</tr>
<tr>
<td>90</td>
<td>12.0%</td>
<td>$27,737</td>
</tr>
</tbody>
</table>

In addition to the fixed retirement income, the annuity has other attractive features. It can provide a hospitalization tax shelter—a portion of the annuity income is tax-free. It is an allowable charitable deduction if you itemize your federal tax returns, and it provides a favorable capital-gains tax shelter when you establish the annuity with appreciated stocks.

For more information on establishing an annuity, call Tom Daly, director of development, at 718/260-3364, or e-mail him at t Daly@poly.edu.

HELLO FROM THE 52ERS

The Class of '52 gathered on the steps of Poly's Wunsch Student Center in June to send greetings to classmates who couldn't attend the reunion. The class came together to be inducted into the Golden Jubilee Society as well as partake in some NYC activities, including seeing "The Producers" on Broadway, cruising the waters around Manhattan on the Circle Line and dining at Joe Franklin's Memory Lane Restaurant. As part of the celebration, Class of '52 leader Frank Pontieri turned the reins over to Nazaroff Simonelli until the 55th reunion. Visit the "Recent Events" section of www.poly.edu/alumni to see more photos from the reunion.

CELEBRATING 60 YEARS

On May 18, the Class of '42 celebrated its 60th reunion at a dinner in Garden City. Long Island attendees were, back row, from left, Robert Benenati, Dietrich [Dick] Schwarting, James Anderson, President David C. Chang, Peter and Citta Romanelli and George Mayrott. Front row, from left, Charles Hefner, Cecilia Chang, Ross Fleissig and Margaret Mayrott. To see more photos from the dinner, visit the "Recent Events" section on www.poly.edu/alumni.

PEER COUNSELORS REUNITE

Former Poly peer counselors reunited at POLYTECHNIC ALUMNI'S annual meeting on June 6. They included, from left, Priya Agarwal '02; George Likorezovos '92; Cheryl A. Chandler M'Near '92; Poly's director of student development; Spencer Korman '00; Debobroto Deb '00; Donald N. Ivanoff Jr., Poly's director of alumni relations; Andrea Grahl '97 and Khavy Alexander '02. Peer counselors work with first-year students to smooth their transition into the academic rigor of Polytechnic.
WECHSLER HONORED WITH 2001 HERMAN F. MARK TECHNOLOGY MEDAL

Dr. Harry C. Wechsler '48 (CM), second from right, was awarded the 2001 Herman F. Mark Technology Medal by Polytechnic's Polymer Research Institute (PRI). Wechsler, a Polytechnic trustee, is founder and president of Boston Systematics Inc. Previously, he was president of Beatrice Foods' Chemical Division and chief executive of Borden Inc.'s Chemical Division, where he helped establish Borden as a leader in theroplastic and film packaging. He was also founder and president of Farboil Company, a manufacturer of power coatings and electronic-encapsulating materials. The medal, awarded annually, honors the late Dr. Herman F. Mark, a longtime Polytechnic professor, PRI founder and considered worldwide the father of polymer science. PRI established the medal in 2000 to recognize a scholar, scientist or researcher who strengthened the collaboration between industry and academia in the field of polymer science and engineering. Wechsler is pictured with, from left, President Chang; wife, Ruth Wechsler; and Dr. Kalle M. Levon, PRI director.

CARL SETTERSTROM (CH) and his wife, Star, moved from Virginia to Colorado to be near their grandchildren, great-grandchildren.

ALAN GARDNER (CH) '47 (CH) volunteers in his Linde, N.J., community, including serving as member on a planning board, environmental commission and the county economic development corporation. He and his wife, Trudi, celebrated their 50th wedding anniversary this year.

HAROLD WERBIN (CM) '50 (CM) is an adjunct professor of cell biology at the University of Texas Southwestern Medical School.

ROBERT J. UNTERREINER (ME) is president of Seering Consultants, a polymer marketing and technology-consulting firm for petrochemical and polymer manufacturers worldwide.

ALBERT LINQUITI (EE) '51 (EE) welcomed a new granddaughter, Tabitha Ann Phillips.

ERWIN SHEPPARD (CM) retired in 1985 as research proposal developer at the University of Wisconsin, Milwaukee, and now lives in Oak Park, Ill.

WILLIAM C. DUMPER (EE) '53 (EE) is president of Wit-Craft Electric Service, which repairs and sells electric motors and pumps. HARRY L. FRISCH (CM) is a distinguished professor of chemistry at SUNY Albany. Last year, he became a 2001–2002 Fulbright Senior Fellow at Stellenbosch University in South Africa.

JOSEF GARTNER (EE) and his wife, Joan, celebrated their daughter Rachel's marriage in May and ordination as a rabbi in June.

FRANK MICHELIS (CH) '59 (CH) retired in 1991 as a vice president at Rhone-Poulenc Inc. and is now active in his church, gardening, golf, volunteering and travel. He and his wife, Marie, have six children and five grandchildren.

NAZARIO SIMONELLI (EE) was elected president of the Class of '52 section of the POLYTECHNIC ALUMNI at this year's Golden Jubilee Reunion.

MAJOR CODES

Refer to the following major codes used in parentheses:

AA Aeronautics & Astronautics
AD Administration
AE Aerospace Engineering
AM Applied Mechanics
AS Applied Statistics
BI Bio-Engineering
CH Chemical Engineering
CM Chemistry
CE Civil Engineering
CT Computer Engineering
CP Chemical Physics
CS Computer Science
DM Dental Materials Science
EB Environment-Behavior Studies
EE Electrical Engineering
EL Electrophysics
EN Environmental Health Science
ES Economic Systems
EV Environmental Engineering
HI History of Science
HR Human Resources
HU Humanities
HS Humanities–Special
IA Industrial & Applied Math
IC Industrial Chemistry
IE Industrial Engineering
IF Information Systems/Management
SS Social Sciences
MT Metallurgical Engineering

S Imaging Sciences & Engineering
IT Information Systems Engineering
JO Journalism
LE Life Science/ Electrical Engineering
LS Life Sciences
MA Mathematics
MC Management of Technology
ME Mechanical Engineering
MG Management
MH Mathematical Statistics
MM Metallurgy & Materials Science
MN Manufacturing Engineering
MO Meteorology & Oceanography
MS Material Science & Engineering/Management
PY Physical Metallurgy
SC Systems Science
SE Systems Engineering
SS Social Sciences
TP Transportation Planning/Engineering Management

NE Nuclear Engineering
OB Organizational Behavior
OR Operations Research/Management
PH Physics
PO Polymeric Materials
PS Polymer Science Engineering
My Favorite Poly Memory
by Ourania (Ronni) Grimes-Reyes '93 (CS)

Before the building of MetroTech Center, there was always a shortage of parking with only one small lot with very few spaces (and only a portion for students). This meant that getting monthly parking passes was a first-come, first-served dilemma. Each month, we would try to get to Poly before the building opened at 7 a.m. and run to line up in front of the building management office. Each month, we would get there earlier and earlier until, finally, we were signed up. This was so much fun that we almost missed the building opening up at 7 a.m. Good thing we had the list!

DO YOU HAVE A FAVORITE POLY MEMORY? Send your story to Therese E. Tillett. E-mail: tillett@poly.edu; Fax: 718/260-3084; Mail: Polytechnic University, 6 Metrotech Center, Brooklyn, NY 11201. Your story cannot exceed 250 words and may be edited for clarity and space. Please include your name, class year(s), and telephone number.

MARTIN ANNENBERG (AE) is in his second career as a paralegal. He recently attended Brooklyn Tech's Class of '52 Homecoming. JOSEPH D. COHEN (CH) retired after 44 years with Westinghouse and moved to South Florida.


DAVID LIEBERMAN (PH) retired after a 40-year career in software development and lives in Palo Alto, Calif.


ALBERT BRANDENSTEIN (EE) arranged for delivery of satellite communications following the September 11 attacks and toured the World Trade Center site with New York State Governor Pataki and New York City Mayor Giuliani.

LIEBERMAN (EE) published his seventh novel, The Last Boy (Sourcebooks) in March. He has taught physics at Cornell University for more than 20 years and recently received its John M. and Emily B. Clark Award for distinguished teaching. ROBERT H. McDermott, PE, (ME) retired in May from the company he founded in 1977, R.H. McDermott Corp., which specializes in the testing and balancing of HVAC systems.

BRUCE M. MEGLINO (ME) '70 (MG) is head of the Management Department at the Moore School of Business, University of South Carolina.

STEVEN MARKMAN (EE) '67 (EL) 73 (EL) is group vice president of applications at Avaya Inc., a provider of communications systems and software for enterprises. GERALDO RODRIGUEZ (MA) is founder and president of DATA ACTION in East Hartford, Conn.

TONY C. LIN (AA) '70 (AA) is a department manager with TRW/SSD. MONTE WALLENSTEIN (EE) is a senior technical staff member at BAE SYSTEMS in Wayne, N.J. His son, Eric, graduated in May with a degree in biomedical engineering and his daughter, Michelle, is a student at the University of Pennsylvania.

68 MEL BERGER (EE) is a division manager at AT&T. MARTIN SIEBENSTOCK (CH) is a senior engineering adviser in the Process Engineering Department of ExxonMobil Research and Engineering Co.

HERBERT L. HENKEL (AE) '72 (ME), chairman, president and CEO of Ingersoll-Rand Co., is a member of the board of directors of C.R. Bard Inc., a developer, manufacturer and marketer of health care products.

MING S. CHAN (CH) is chief of the Bureau of Laboratories for the Florida Department of Health.

DANIEL J. PAULSON (EE) '76 (EE) published his third book, Architecture-Centric Software Project Management (Addison-Wesley), in December 2003. M. WALTER SIM, PE, (CE) '73 (TP) celebrated the 10th anniversary of the founding of his transportation engineering consulting firm in Manhattan.

JOE STENNETT (EE) is a support engineer for the Maritime Department of the Lamont-Doherty Earth Observatory.

RAY SUBOCKI (EE) is president and CEO of the Lehigh Valley Economic Development Corp. in Pennsylvania.

AUDREY CURTIS (EE) is director of the telecommunications management program at the IEEE School of Technology Management, Stevens Institute of Technology.

NADIGA S. RAMESHWAMY (CE) is retired and lives in Florida.

JOHN ARCERI (IE) is an elected city council member in Marco Island, Fla.

THOMAS R. D'AMICO (IE) is a senior vice president of global manufacturing and quality at Diebold Inc. WILLIAM PRAZENKA JR., PE, (CE) '82 (CE) is a senior associate and deputy director of construction services for Conner Townsend Envirolyte Engineers of NY Inc.

CARL SELINGER (TP) led a seminar, "Stuff You Don't Learn in Engineering School," in April at Cornell, SUNY Binghamton, the SWE Region F Conference and the IEEE NYC Gold Chapter. ROBIN WYNTER-STONER (EE) is a relationship manager for JP Morgan Chase and lives in Brooklyn with her husband, Tim, an architect, and sons, Iain, 13, and Kyle, 11.
KEN SWANSON MARRIES IN POLY-STUDDED AFFAIR

On February 16, Ken Swanson '80 (EE) married Peg Heintz on Long Island in a ceremony attended by Phillip M. Dong '89 (EE); Ellen F. Hartigan, Poly's vice president of student affairs; Andrew Juschenko '91 (EE); Enrico Renzi '89 (EE); and George W. Yafagos '89 (EE). Ken's mother, Jeanne, is an executive secretary at Poly's Office of Student Affairs and his father, Peter '80 (MG), teaches at the University. Ken is a project engineer at Square D Company in Jericho, N.Y. Peg is a high school guidance counselor.

Pleasantville, N.Y., campus.

RONALD A. BELL (AE) is a partner in the Cincinnati law firm Taft, Stettinius & Hollister LLP, specializing in tax, probate and estate planning.

JUNJI KIDO (CM) is an associate professor in the Graduate School of Science and Engineering at Yamagata University in Japan. In 1993, he developed the first white color organic electroluminescence materials and devices and received an award from Japan's Society of Polymer Science and the U.S. Society for Information Display. He and his wife, HSING-LIN L. LAN '92 (CM), a research associate at Yamagata University, have one daughter and live in Yamagata, Japan.

SLAV SHURAVE/ESKY (EE) '91 (IS) is a development manager with MoneyLine Financial Network in Manhattan. He married Beth Leach in 2001, with JAMES J. ROCCO '90 (CE) as best man and EDWARD ETZIN '91 (IS) as usher.

MARK L. YOUNG (AE) is an attorney with McGuire Woods LLP in Jacksonville, Fla.

JOHN SAVIO, PE, (EE) and his wife, Yvonne, welcomed a son, Christopher John, in April.

82 NIGEL SALTS (PH) is an adjunct math instructor at Marymount College, St. Francis College, Bronx Community College and New York City Technical College.

83 JEFFREY MANZIONE (CH) is director of water lab and quality management at Cadion Corp. in Columbia, Md. QUANG TRAN (EE) '90 (MG) is director of global procurement at Foresone Inc., an electronics service provider, and lives in Northern California.

87 KEVIN SCHULZ (EE) is director of engineering at Intercon Inc., Forest, Va. He and his wife, Kim, welcomed their second child, Emily Barbara, in January. KEITH VASAK (MG) is an independent consultant and is currently performing design and testing on new technology trains for the New York City Transit Authority. STEVEN YEE (AE) is a combat system acquisition manager for the AEGIS shipbuilding program.

89 KEVIN M. BANKS (MG) is dean of student affairs for Pace University's

92 PAUL J. CAMMAN (ME) is a senior optical manufacturing engineer at Goodrich Corp. in Danbury, Conn.

93 GORDON MAHON (AE) is a satellite communications engineer with Boeing. He married Janet James this year, with MICHAEL UREMENET '92 (ME) '00 (MG) as best man.

94 RICHARD SALPET (EE) is president of Technolosky Inc., manufacturer of high-voltage power supplies.

95 LEONID VAYNER (CS) and his wife, Yelena, celebrated the birth of a son, Gabriel Adam.

97 JEANETTE BAIARDI (EN) received her Juris Doctorate in May from Pace University's School of Law. BORIS SKULSKYI (EE) is an electrical engineer in the Traffic Management Center for the New York City Department of Transportation.

90 JOHN SAVIO, PE, (EE) and his wife, Yvonne, welcomed a son, Christopher John, in April.

In Memoriam

George A. Carleton '34 • Charles A. Wood '37 • John Sheft '38 • William A. Blinn '39 • Alfred Bash '39 • Morris Morduchow '44 '45 '47 • Josep D'Amato '45 • Victor F. Sadowski '48 '54 • Alfred F. Aronson '50 • Joseph E. Dugan '50 • Mark M. Luckens '50 • Donald Rocherhaus '50 • Joseph E. Savitz '50 • Eric A. Meier '53 • Bruno S. Frassetto '54 • Martin Masson '55 • Ernes. Regina '55 • Donald Brinkie '56 • Morgan B. Turner '56 • Theodore R. Rees '58 • George A. Korpan '60 • George Shannon Jr. '61 • Richard J. Orford '62 • George W. Sayre '65 '68 • Edward S. Koster '66 • Keith C. Mentell '67 • David T. Kramer '72 • Tao Q. Yip '77 • Patrick F. Bogdanowich '76 • Dimitri Perelshvey '79 • George Rodriguez '82

Torunn Atteraas Garin

Torunn Atteraas Garin '77, a noted food engineer who helped develop the artificial sweetener aspartame, died April 26 of lung cancer at her home in Bronxville, N.Y. She was 54.

Garin earned an MS in Environmental Engineering from Polytechnic and a BS in Chemical Engineering from Columbia University. In a 14-year career as a research scientist at General Foods Corp., she oversaw the development and introduction of aspartame and was a national spokesperson for the product. She also developed noontime processes to create food colorings and remove caffeine from coffee; she was awarded two patents for the latter. She considered her greatest achievement at General Foods to be the reduction of water pollution caused by the food industry. She advocated the creation of treatment centers to turn wastewater into new sources of animal feed and clear water. The first center was built at a Minute Rice plant in Delaware in the 1970s. She retired from General Foods in 1985 to become a full-time mother.

A native of Bergen, Norway, Garin moved to the United States at age 21 to marry her husband, Michael, whom she had met when a foreign-exchange student in Utah. She is also survived by her sister, Lilian Davinlvs; her sister, Kristoffer, Alexander and Nicholas;
Poly Quiz

This issue's Poly Quiz
Here's a chance to test your Polytechnic education. Correctly answer the question and be entered in a drawing to win a Poly prize.

Question: Where is the world's deepest man-made hole?

Send your answer to Michelle Kerr:
E-mail: mkerr@poly.edu; Fax: 718/260-3081

Mail: Polytechnic University, Six MetroTech Center, Brooklyn, NY 11201

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Winner of Drawing from Spring '02 Quiz: Harold G. Seer '55

More than two dozen people figured the correct answer to the question posed by John Pertessis '85: How would you determine which one of the two circuits shown below is inside the black box?

Answer: Circuits 1 (Thévenin) and 2 (Norton) are equivalent circuits. The simplest way to determine which circuit is in the box is to measure heat dissipation. If the box is cool, it contains circuit 1 (which dissipates nothing when undisturbed). If it's hot, the box is circuit 2 (which dissipates 10 kilowatts when undisturbed).

To view all correct respondents' names, visit www.poly.edu/alumni.

The Lynford Lecture Series

Presents:

Dr. Robert A. Mundell

Tuesday, October 8, 2002, at 4 p.m.

Dibner Auditorium, 5 MetroTech Center

1999 Nobel Laureate for Economics Dr. Robert A. Mundell, has inspired generations of researchers and scholars with his contributions to international macroeconomics. His pioneering work on monetary dynamics, inflation theory, supply-side economics and optimum currency areas, dating back four decades, continues to be relevant to policymakers, most recently in the creation of the Euro, a single European currency.

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