Gala Celebrates Donors to $275-Million Campaign
Gala Dinner Salutes Donors for Successful $275-Million Campaign, Honors Chairman R. William Murray for Outstanding Leadership

More than 170 donors and their guests gathered at The Palm House in the Brooklyn Botanic Garden to celebrate the successful completion of the Campaign for Polytechnic—Fulfilling the American Dream. The campaign raised over $275 million and heralds a new chapter in Polytechnic’s history.

Capping the evening was a tribute to Campaign Chairman R. William Murray H’94, retired chairman of Philip Morris Cos. and deputy chairman of Poly’s Board of Trustees. Citing Murray’s vision, drive and energy, Trustee Arthur C. Martinez ’60,

From left, Rodney Miller, Poly’s former executive director of development; Trustee Steven M. Ritvo ’69 ’71, president of Urban Systems Associates Inc.; R. William Murray H’94; and Richard S. Thorsen ’63 ’67.

retired chairman and CEO of Sears, Roebuck & Co., declared, “Bill’s absolute commitment to the campaign is why we can celebrate tonight.”

Philip Shpilberg ’97, Student Council president at the start of the campaign in May 1997, and Amy Sabatelle ’03, current council president, presented Murray with a Steuben crystal torch that is emblematic of the campaign logo.

Visibly moved by a standing ovation, Murray thanked the more than 9,000 contributors. “Every donor and every gift mattered—from the largest contribution to the smallest,” he said. “I salute you all, and thank you from the bottom of my heart.”

Speaking at the dinner, President David C. Chang noted, “We now have the resources to make great strides toward transforming Poly into a premier technological university—not only in the city, but also in the state and in the nation.”

Stewart G. Nagler ’63, vice chairman and CFO of MetLife Inc. and chairman of Poly’s Board of Trustees, recalled the historic $175-million bequest in 1998 from Donald E.

Jana Richman, director of the University’s Bern Dibner Library of Science and Technology, left, joins Trustee David Dibner, president of The Dibner Fund, and his wife, Frances. The library is named in memory of Dibner’s father, Bern ’21 H’59.

From left, Katherine and Clifford H. Goldsmith, vice chairman of the Board of Trustees and principal of The Prendel Co., join Lewis and Anne Davis at the dinner. Mr. Davis is a partner at Davis Brody Bond LLP Architects and Planners.

and Mildred Topp Ottmer, which anchored the campaign. He also saluted the University’s greatest living benefactors, Joseph J., and Violet J. Jacobs, for their $20-million gift, including a $10-million challenge, Jacobs, unable to attend the celebration, sent a letter in which he recalled his Poly roots: “My alma mater has been a part of my life for almost 70 years, and, like you, I take great pride in her successes and in giving back to her.”

A dinner highlight was a pictorial campaign retrospective presented by Dr. Richard S. Thorsen ’63 ’67, vice president for development and university relations. The retrospective illustrated in words and pictures the story of the campaign and its triumphant conclusion. “There were some skeptics in the beginning,” Thorsen said, “but we prevailed.”

Critical to the success of the campaign was the President’s Associates, now in its 24th year at Poly. Trustee Henry L. Bachman ’51 ’54, director of technical marketing and advanced systems at BAE Systems, proudly noted that the organization collectively contributed more than $5 million to the campaign.

“We have been energized by the completion of this campaign,” Bachman said, “and by the dramatic progress we see at the MetroTech campus.”

The guests were entertained by Broadway chanteuse Alison Fraser and musicians from the Brooklyn Conservatory of Music.

ON THE COVER
1. From left, Arthur C. Martinez ’60, Philip Shpilberg ’97, Amy Sabatelle ’03 and R. William Murray H’94 holding Steuben crystal torch presented to him for his leadership of the campaign.
2. Campaign donors enjoy dinner at The Palm House.
3. Trustees William L. Friend ’56, president of the University of California President’s Council on the National Laboratories, and Michael H. Kappaz ’70, chairman and CEO of K&M Group, enjoy the cocktail reception.
4. David Dibner and David Chang.
5. Stewart G. Nagler ’63.

Enjoying the cocktail reception are, from left, Trustee Harry C. Wechsler ’48, president of Boston Systematics Inc.; Henry Bachman ’51 ’54; and Jack Sipress ’56 ’57 ’61, president of Sipress Associates.
Trustee Jerome Swartz Gives $1.6 Million to Polytechnic; Helps to Push Campaign Over the Top

IN THE CLOSING WEEKS of the Campaign for Polytechnic—Fulfilling the American Dream, Polytechnic Trustee Dr. Jerome Swartz '63 '69 made a $1.6-million gift to the University, helping propel the campaign past its $275-million goal.

The Swartz gift is earmarked to position Polytechnic as an important regional and national resource in such areas as retail technology, wireless communication, computational neuroscience, manufacturing engineering and micro-electromechanical/opto-mechanical (MEMS/MEOMS) systems.

"Brooklyn's Polytechnic is a special place to me," says Swartz, chairman, co-founder and chief scientist of Symbol Technologies Inc. "My success today started with a quality education. I want to help Polytechnic take a leadership role in critical technologies vital to our region's economic growth." Swartz earned a master's and doctorate in electrical engineering and has received the University's Distinguished Alumnus Award.

Based in Holtsville, N.Y., Symbol Technologies Inc. is a global leader in mobile and wireless bar-code laser scanning data transaction systems. In 2000, under Swartz's leadership, Symbol was awarded the National Medal of Technology, the nation's highest honor for technology innovation. A member of the National Academy of Engineering, Swartz is also an IEEE fellow and 1998 winner of the IEEE's Ernst Weber Leadership Award. In 2001, he was awarded the inaugural Eureka Award for "groundbreaking achievements and service to society" by the New York Academy of Sciences. Swartz is credited with 150 U.S. patents, including those for the hand-held bar-code laser scanner and the wireless laser scanner-integrated terminal.

WICAT Established with $1.5-Million Grant

THE NEW YORK STATE OFFICE of Science, Technology and Academic Research (NYSTAR) has awarded Polytechnic a $1.5-million grant to establish a Wireless Internet Center for Advanced Technology (WICAT) at the University.

The grant supports several research projects at WICAT to develop new techniques for data transmission and information delivery. One research component is a project to create infostations. Infostations automatically provide a wide range of information, including news articles, sports scores and local street maps to mobile-computer users. The project is overseen by Dr. Phyllis G. Frankl, professor of computer science and director of WICAT, and Dr. David J. Goodman, professor of electrical and computer engineering.

The Polytechnic leadership team for the project are Frankl; Goodman; Dr. Mel Horwitz, professor of management and director of the Institute for Technology and Enterprise; Dr. William R. McShane, vice president of academic affairs and dean of engineering and applied sciences; and Dr. Shivendra S. Parwari, director of the Center for Advanced Technology in Telecommunications (CATT), which is affiliated with WICAT.

Polytechnic researchers for the project come from several disciplines. From the Department of Electrical and Computer Engineering are Department Head Henry L. Bertoni; Professors Frank A. Cassara, T-Tai Lu and Yoo Wang; Associate Professors Ramesh Karr and Malathi Veeraraghavan; and Assistant Professors Darius Czarkowski and Elza Erkip. From the Department of Computer and Information Science are Associate Professors Lisa Hellerstein and Nasir Memon and Assistant Professors Gleb Naumovich and Torsten Suel. From the Department of Management are Assistant Professors Mihir A. Parikh and Bharat P. Rao and Industry Associate Professor Nina D. Ziv, academic director of the Institute for Technology and Enterprise. Dr. Tim Moors, a research scientist and visiting scholar in CATT is also assisting in the research.

The grant was awarded through NYSTAR's Centers for Advanced Technology (CAT) Development Program. Polytechnic was named the lead university in the grant in partnership with Columbia University.
POLYTECHNIC NEWS

Bertoni, Georgakis and Griffis Named Department Heads

In 2001, POLYTECHNIC appointed three acclaimed educators and engineers to lead academic departments: Dr. Henry L. Bertoni ’62 ’67 for the Department of Electrical and Computer Engineering; Dr. Christos Georgakis for the Department of Chemical Engineering, Chemistry and Materials Science; and Dr. Fletcher H. (Bud) Griffis, PE, for the Department of Civil Engineering.

Bertoni has enjoyed a 35-year career at Polytechnic as professor of electrophysics and previously served as department head and vice provost for graduate studies. For the past two decades, he has led a group to study UHF propagation in urban environments, the results of which were used by the coalition COST (European Cooperation in the Field of Scientific and Technical Research) to create an international model to install digital mobile phone and wireless phone systems.

He has co-edited five books and wrote the book Radio Propagation for Modern Wireless Systems. He is a fellow of the Institute of Electrical and Electronics Engineers (IEEE) and received four best paper awards, the latest a 2001 Jack Newbauer Best Systems Paper Award from IEEE’s Vehicular Technology Society. He is also a member of the International Scientific Radio Union and the New York Academy of Sciences. In 2001, he received an Alumnus of the Year Award from the University’s Big Apple Chapter.

Georgakis joined Polytechnic from Lehigh University, where he was the Iacocca Professor of Chemical Engineering and founder and director of its Chemical Process Modeling and Control Research Center. A teacher and researcher for the past 26 years, he held two endowed professorships at the Massachusetts Institute of Technology, initiated a Chemical Process Engineering Institute at the University of Thessaloniki in Greece and was a visiting professor at several universities. In addition to serving as head at Polytechnic, he will hold the title Othmer Distinguished Professor of Chemical Engineering and direct a new Systems Research Center for Chemical and Biological Processes.

Georgakis is president of the American Automatic Control Council and a fellow of the American Institute of Chemical Engineers, where he received a 2001 Senior Award from the institute’s Computing and Systems Technology Division. He is also a member of the American Chemical Society, the New York Academy of Sciences, the Society of Industrial and Applied Mathematics and the American Association for the Advancement of Science. Georgakis also co-authored a chapter in Atmospheric Fluidized-Bed Combustion.

Griffis, a former colonel in the U.S. Army Corps of Engineers, joined Polytechnic in 2000 as a professor of civil engineering. He has established a Center for Construction Management Technology and oversees the University’s $130-million construction and renovation projects on the MetroTech campus.

A 26-year Army veteran, he managed military construction worldwide, including the building of 2,400 miles of modern roads in South Vietnam in the late 1960s and the Ramon Airbase in Israel, one of the two Camp David Agreement airfields, in the 1980s. After retiring in 1986 as the commander of the corps’s New York district, he joined Columbia University as professor of civil engineering, head of its Construction Engineering and Management Program and director of its National Center for Infrastructure Studies.

He is a director of the Society of American Military Engineers, a former director of the American Society of Civil Engineers and current treasurer of that society’s Architectural Engineering Institute. He co-authored Construction Planning for Engineers and New York Infrastructure: A Policymakers’ Guide and wrote the first chapter to Standard Handbook of Heavy Construction.

PRIZE STUDENT
Jennifer Ruonavuori ’01, second from left, received the first Professor A. George Schilling Award, which recognizes an outstanding student in the Department of Management, joining her are, from left, President Chang; Richard L. Metrick ’62, senior managing director of investment banking at Bear Stearns & Co. Inc., who endowed the annual award; and Professor Schilling, whom Metrick credits with changing his life as a student at Poly. The award carries a $1,000 prize.

University Names Board of Overseers, Appoints Senior Faculty Fellows to Othmer Institute for Interdisciplinary Studies

POLYTECHNIC HAS NAMED six distinguished research leaders to serve as the Board of Overseers and appointed eight professors as fellows for its new Othmer Institute for Interdisciplinary Studies. The institute, with a $25-million endowment from the Othmers’ $175-million bequest, will serve as an incubator for breakthrough interdisciplinary technology-related research.

Named to the board are:
• Dr. Arthur L. Bienenstock ’55 ’57 H’98, professor of materials science and engineering, Stanford University
• Dr. Paul Horn, senior vice president of research, IBM Corporation
• Dr. Robert S. Langer, the Kenneth J. Germerhausen Professor of Chemical and Biomedical Engineering, MIT
• Dr. Joshua Lederberg, president emeritus, Rockefeller University and 1958 Nobel Laureate in Medicine
• Dr. Robert W. Luecky, corporate vice president of applied research, Telcordia Technologies
• Dr. Arun Netravali, chief scientist, Lucent Technologies.

The institute appointed six Polytechnic professors as Othmer Senior Faculty Fellows:
Continued on page 5.
Without Mathematics, there can be no science and engineering. That's why each of Polytechnic's science and engineering departments requires its students to take a minimum of 20 credits (two and a half years) of math courses. Students are also taking new 2-credit, half-semester math courses that meet the needs of their particular disciplines. As more students take more math courses, Polytechnic's Department of Mathematics has evolved, says its head, Dr. Erwin Lutwak '68 '72 '74.

"The department does more than give lectures and tests," he says. "In the past few years, we've strived to create an exciting mathematics program to inspire our students; because it is in the math courses that they learn quantitative and logical reasoning, which is invaluable for whatever career they choose."

The department's work is paying off in the eyes of students. In May 2001, Lutwak and faculty members Drs. Chandini Shah and Deane Yang received the Dedicated Faculty Awards from Poly's Student Council for "giving time and effort to help students succeed in mathematics, the root of all engineering and computer science."

"It's interesting," says Lutwak, "because we received those awards at a time when we dramatically raised the standard of a math education at Poly. We've increased students' workloads and toughened exams."

When Lutwak, who has taught at Poly for almost three decades, became head of the department in 1999, he set a new measure for achievement but understood that students wouldn't meet that measure automatically. "Our goal was not to raise the bar and watch students fail," he explains. "Instead, we created support services so we could raise the bar and help students succeed." Those services include a Math Help Center, long office hours for faculty and a team-teaching approach to enable students to come to any faculty for help. The department also recruited more than a dozen instructors and hired top students as tutors.

"Raising the bar on a Poly math education means improving the abilities of students to solve basic problems," says Lutwak. "Many students come from high schools where they followed a template given by their teacher. Here, we don't want students to memorize formulas. We want them to think for themselves and to develop the ability to solve and analyze problems using basic logic and deductive reasoning."

Over the past three years, the department has given its own diagnostic exam to new students to measure math skills and has required students to attend a weekly workshop to address any weaknesses. A precursor to this exam was created in the early 1980s by faculty member Dr. Jerome S. Epstein, who fine-tuned it at more than 30 high schools and colleges.

"With the exam," says Lutwak, "we get a clearer picture of students' strengths and weaknesses and are better able to determine how and what to teach them."

The workshop, open all day on Fridays, is mandatory for freshmen and sophomores and emphasizes one-on-one instruction and group collaboration. Students are assigned questions that address key weaknesses. Students may come any time during the day, stay as long as they wish and receive help from peers, faculty, graduate students and undergraduate tutors. Mathematics, like carpentry, basketball or driving, is learned by doing," says Shah, the workshop's director of freshman mathematics, "not by watching someone else do it or talk about it."

The department is also exploiting the Internet to motivate more students. One course, Linear Algebra, required for all science and engineering undergraduates, is taught almost completely online. Students go online to follow the course syllabus, read summaries of each class, find their weekly homework, take sample quizzes and download a free course textbook (which typically might cost $100 in a bookstore). Students receive further instruction in two weekly classes, taught by Associate Professor Juan Carlos Alvarez-Paiva, who created the online instruction.

Students may also take advantage of independent electives online and take them at their own pace. These courses are for smaller groups of students and are not given in a classroom.

"With all these initiatives," Lutwak says, "our faculty provides customer service so that bright students can be constantly challenged and failing students can't slip through the cracks."

Othmer Institute (Continued from page 4.)

Dr. Mark M. Green, professor of organic chemistry; Dr. Lisa Hellerstein, associate professor of computer science; Dr. Sunil Kumar, associate professor of mechanical engineering; Dr. Mel Horwitz, professor of management; Dr. Erwin Lutwak, professor and department head of mathematics; and Dr. Yao Wang, professor of electrical and computer engineering.

In addition, Dr. David J. Goodman, professor of electrical and computer engineering, was named the Weber-Othmer Senior Faculty Fellow, and Dr. Stephen Arnold, professor of physics, was named the Ports-Othmer Senior Faculty Fellow.

The Othmer Institute will provide seed money for high-risk, high-payoff technological research, and foster an environment of exploratory learning and team building in new areas of research and scholarship. Dr. Ivan T. Frisch, Polytechnic's executive vice president and provost, to whom the institute reports, notes: "Research at the Othmer Institute will have the potential to initiate and support breakthrough findings, rather than incremental advances in a single field."

In addition, the institute will serve as a mechanism to explore interdisciplinary ideas and as an incubator for new programs. All initiatives of the Othmer Institute will have an interdisciplinary character and cross disciplinary boundaries. Interdisciplinary research will be conducted in such fields as photonics, biotechnology, signal processing and information management.
**Polytechnic News**

**Computer-Industry Legend Critical of How Schools Exploit Computers**

Dr. Alan C. Kay, a computer-industry legend, dismisses the current educational application of computers as "expensive typewriters."

Speaking at Polytechnic's Fourth Annual Lynford Lecture in October, Kay, hailed as the father of the personal computer, said, "The point of having computers in schools should be to have children investigate and learn about deep ideas in ways that cannot be accomplished in another medium."

Kay, president of Viewpoints Research Institute Inc., is a founder of the famed Xerox Palo Alto Research Center and led one of the groups that, together, developed modern workstations, desktop publishing, the Ethernet, laser printing and network "client-servers."

In his lecture, entitled "The Computer Revolution Hasn't Happened Yet," Kay declared that after 50 years of development the computer is still masquerading as "better paper." He predicted that the next decade will see the transition into what computing and networks are really about: entirely new ways to communicate, do business, organize politically, think and live. "The changes are likely to be as broad and deep as those brought by the printing press to 15th-century Europe," he said. "As usual, it will be much easier to invent the technology than it will be to help people make good use of it."

The Lynford Lecture is sponsored by Trustee Jeffrey H. Lynford, chairman of Wellford Real Properties Inc. and his wife, Tondra, to present the wisdom of outstanding scientists and mathematicians to a wide audience. Polytechnic's Institute for Mathematics and Advanced Supercomputing (IMAS), led by Drs. David and Gregory Chudnovsky, cosponsored the lecture. During the event, David Chudnovsky presented Kay with a 2001 IMAS Award.

**Poly Launches Web Site to Connect Students, Faculty and Administration**

It's been an age-old tradition for colleges to keep students in the dark about pending grades. Waiting in line to query financial aid, waiting for grades to be posted, waiting for professors to return their offices and waiting for course-required materials to be made available from the library.

Polytechnic has found a web-based solution to the "waiting problem." In fall 2001, it launched a portal Web site called My Poly to give students, faculty and staff easy access to frequently used academic and administrative services. Students using My Poly can check grades, submit assignments, enroll in online classes, share notes with classmates, create personal to-do lists, review academic and financial accounts, manage class and extracurricular activities, publish and interact with professors.

**Students using My Poly can check grades, submit assignments and interact with professors.**

For the first time in over 60 years, five panels from the painter Moritz Gassner's prodigious work — A Mural Monument to Modern Culture — can be seen by the public in a permanent display in the foyer of the Dibner/CATT Building on Polytechnic's MetroTech campus.

The panels, each 6 feet by 9 feet, memorialize humanity's knowledge of the sciences through art. Each panel celebrates a scientific field: geology, physics (pictures), biology, chemistry and astronomy. Gassner, a New York City native, painted the murals between 1929 and 1931 in Italy after being awarded two Guggenheim Foundation fellowships for the works. They were exhibited in the 1930s at the Brooklyn Museum of Art and other venues before being put in storage. Gassner died in 1995; in 2001 his only daughter, Judith Schlosser, and her husband, Herbert, donated the pieces to the University with the hope that, explains Mrs. Schlosser, "my father's work serves as an inspiration to students, faculty and visitors at Polytechnic."

To view the Gassner murals online, visit [www.poly.edu/news/GassnerPictures](http://www.poly.edu/news/GassnerPictures).
Student Scholars Pledge Academic Excellence

PLEDDING TO PERFORM to the best of their abilities and develop technology and science for generations to come, recipients of the Poly 100 and Board of Trustees Scholarships were inducted in a special candle-lighting ceremony on the MetroTech campus November 28th.

During the ceremony, President David C. Chang saluted the scholars for their commitment to advance science and technology and their dedication to excellence in academics.

The Poly 100 Scholarship is solely supported by members of the Poly 100, who contribute a minimum of $50,000 to the University over five years. The Board of Trustees Scholarship, funded by the University's trustees, is a full-tuition scholarship awarded each fall to a select group of freshmen.

IN BRIEF

University Selected to Organize Science Fairs for City Students
The NYC Board of Education has awarded Polytechnic a five-year contract to organize and sponsor the New York City Science and Engineering Fairs. These fairs qualify high school students to represent New York City at the annual International Science and Engineering Fair. Poly's Center for Youth in Engineering and Science (YES Center) and David Packard Center of Technology and Educational Alliances will lead the effort in conjunction with the New York Academy of Sciences.

Nobel Laureate Speaks at Poly Symposium
Dr. Alan G. MacDiarmid, winner of the 2000 Nobel Prize in Chemistry, was the plenary speaker at the Ninth International Symposium on Macromolecular Metal Complexes hosted by Polytechnic University. The symposium, held in August, focused on the role of metal ions, complexes and clusters in macromolecular systems. The macromolecule plays a pivotal role in a wide range of technologies including sensors, fuel cells, medical devices, toxic material recovery and fiber optic amplifiers. This was the first event in Brooklyn for the symposium's sponsor, the International Union of Pure and Applied Chemistry.

Career Fair 2001 Draws Over 50 Companies
Polytechnic's 24th Annual Career Fair was one of the largest in the school's history. Close to 1,500 students met with representatives from more than 50 major corporations, including ExxonMobil, Bechtel Corporation, Symbol Technologies Inc., Parsons Brinckerhoff and UBS Paine Webber. The event was sponsored by the National Society of Black Engineers, the Society of Hispanic Professional Engineers and the University's Office of Career Services and Cooperative Education.

Director Named For Graduate Center
Dr. Dean S. Kevlin has been named director of Polytechnic's Graduate Center for Professional Studies. In this position, he reports to Dr. Ivan T. Frisch, provost and executive vice president, and oversees administrative and fiscal duties for graduate professional studies at all Polytechnic locations. Before joining Poly, Kevlin was executive director of education and programming at the American Institute of Chemical Engineers and director of the graduate division of the New Jersey Institute of Technology.

University Receives Educators of Distinction Award
Polytechnic has won a 2001 Educators of Distinction Award from Saludos Latinos/Saludos.com, a career and education magazine and Web site for bilingual Hispanics. The award was given to the University for demonstrating a commitment to the success of Hispanics in higher education.

CATT and LIFT Partner to Help Long Island Companies Compete for Telecommunications Contracts
Polytechnic's Center for Advanced Technology in Telecommunications (CATT) and the Long Island Forum for Technology (LIFT) have established a cooperative relationship to increase LIFT members' strength in telecommunications technology. Under the agreement, CATT will provide LIFT members with technical assistance in the development of Long Island companies' ability to compete for and win federal and state-funded contracts associated with advanced telecommunications.

14 Poly Students Receive Scholarships From Jewish Foundations
The Rose Biller Endowment Fund in a joint program with the Hebrew Free Loan Society has awarded scholarships to 14 Poly students for the 2001 to 2002 school year. They are Michael Asherov '03, Yelena Garber '03, Dmitry Golubets '03, Raisa Gмышkaya '05, Yuriy Grechukhin '04, Aleksandr Kadan '02, Aleksandr Lazbin '03, Yevgeniy Mokrov '05, Alex Rodnyansky '04, Gary S. Rokach '03, Yulita Storobinte '03, Alishen Tajian '03, Daniel Yagudayev '03 and Alexander Zayas '03.

Trustee Honored
Polytechnic Trustee Dr. Tameo Nakahara was named co-recipient of IEEE's 2002 Eric E. Sumner Award for his pioneering contributions to the physical understanding, manufacture and deployment of optical fiber communications systems. Nakahara is executive adviser to the chairman of Sumitomo Electric Industries Ltd. in Tokyo.
Dr. Bernard L. Meyers: Face to Face with Horror

The first thing Dr. Bernard L. Meyers ’58 walked by was a car. Nothing was left but a metal frame. “No plastic, no rubber, no leather remained,” he remembers. “The heat must have been unimaginable to destroy it all.”

The car skeleton was a block from the former World Trade Center, now called Ground Zero. Three days after two terrorist-piloted planes smashed into the north and south towers, Meyers traveled to the site by train from Washington, D.C. He was there to lead a team of construction and safety experts from Bechtel Corporation, where he is a senior vice president.

As he entered the area, his first impression was horror. “Nothing could have prepared me for what I saw,” he says. “The images on TV and in print don’t do it justice.” The rubble heaps in front of him were seven stories high. Acrid smoke stung his eyes. All he could breathe in was the putrid scent of burning metal, burning plaster, burning bodies. “In the first 20 minutes, I trembled and cried,” he says, “and then I became angry. My first thought was, How could anyone do this? We need to get even. Now, I hope that no one does this to anyone else again.”

Ground Zero encompasses 30 buildings and covers as many as 10 to 15 square blocks. Meyers, a native New Yorker who earned his bachelor’s in civil engineering from Poly, spent time in that area as a child, shopping with his mother and visiting a brother who lived there. He didn’t sleep his first three nights in New York as he recalled childhood memories of a neighborhood he once knew and reviewed the wreckage in its place. In his 40-year engineering career, including 20 years with Bechtel, Meyers is experienced in construction engineering, environmental restoration and nuclear operations, yet it was hard for even him to imagine destruction of such magnitude.

Meyers spent his first week constantly at Ground Zero overseeing Bechtel specialists in health management, environmental safety and construction engineering. His team, integrated into the recovery effort, helped set up rigging cranes and large equipment. The team also developed a safety plan for working and using equipment at the site and a health plan to help protect workers from asbestos and chemicals in the buildings as well as the intense heat at the site. Some hot zones in the area exceeded 2,000°F.

“Everybody wanted to work at breakneck speed, but safety was always a concern.” Meyers says, recalling how impressed he was with the workers, especially fire and police personnel and Red Cross volunteers. “In those circumstances, people were working at another level. It was chaos but chaos that was efficient and well directed. Most of the workers lost someone there, and for them it was closure to be there. I believe everyone turned his or her emotional and physical energy into making it better.”

POLY BOARD INDUCTS TRUSTEES

POLYTECHNIC’S BOARD OF TRUSTEES has confirmed the appointments of two alumni to the board. They are Ralph G. Alexander ’77 ’78, group vice president of exploration and production at BP plc, and Michael H. Kappaz ’70, chairman and CEO of K&M Group of Companies, comprising K&M Telecommunications LLC, K&M Global Construction LLC and K&M Engineering & Consulting Corporation.

In addition, two former trustees have rejoined the board: Linda K. Jacobs, president of Middle East Technology Assistance, and Dr. Hans Mark H’82, the John J. McKenta Centennial Energy Chair in Engineering at the University of Texas at Austin. Both have distinguished Poly lineage: Jacobs is the daughter of Lifet ime Trustee Joseph J. Jacobs ’37 ’39 ’42 H’86 and Mark is the son of the late Herman F. Mark, founder of the University’s Polymer Research Institute.

IN MEMORIAM

Ronald Tartaro, 1962–2001

Ronald Tartaro, a former adjunct professor of manufacturing and process control at Polytechnic, died in the terrorist attacks on the World Trade Center. He was 38.

Tartaro, a portfolio manager and executive vice president for Fred Alger Management Inc., an investment management firm, worked in Tower 1 at the World Trade Center. Before joining Alger in 1990, he worked in research and development at AT&T Bell Labs. A graduate of Columbia University, Tartaro earned a bachelor’s in engineering in 1984, and a master’s in applied science in 1986. He is survived by his parents, Therese and William Tartaro, wife, Karen, and three children, Alana, Andrew and Daniella.

Tartaro joins eight other known Poly alumni, faculty and students who perished in the attacks on September 11.
Nasir Memon: Positioning Poly as a Leader in Multimedia Security

For Dr. Nasir Memon, covert messages in cyberspace are not the stuff of science fiction.

"There is no doubt that the Internet can be used to send secret messages," says Memon, associate professor of computer science and an expert in multimedia security. "And while I don't know if the terrorist attacks of September 11 were planned on the World Wide Web, secret messages are posted on the Web."

Sending clandestine messages is called steganography. Greek for "hidden writing," Memon has developed new algorithms and a software program to detect steganography on the Internet. A prototype of the new program was recently given to the Air Force. According to Memon, steganography takes advantage of the fact that digital files, such as photographs, can be slightly altered and still look the same to the human eye. The research done at Poly, he says, has yielded a sophisticated new program that will make it harder to use steganography to communicate covertly on the World Wide Web. The program uses cutting-edge software to uncover advanced steganographic techniques.

Digital Fingerprinting
Memon is also researching the development of copy-protection mechanisms using digital watermarking and has developed a digital signature that cannot be copied. With the rapid growth of multimedia content in digital form—audio, video and image—data theft has become a major problem, especially in the entertainment industry. Through digital watermarking, a signal or "fingerprint" is added to the data to prove ownership. Memon notes that the majority of work in digital watermarking has focused on developing techniques based on tools from communications and signal processing. "Our research showed that many of these techniques were subject to counterfeiting," he says. "We developed a digital signature that cannot be duplicated, and this has been very influential on subsequent developments in watermarking."

Much of Memon's research is conducted in the University's new Information Systems and Internet Security Laboratory in Rogers Hall. Funded by the National Science Foundation, Air Force Systems and private industry, the laboratory is on the forefront in the development of secure digital commerce.

"Our areas of research include steganography, digital watermarking, and computer and network security," Memon says. "Our goal at Poly is to emerge as a national center for information assurance in digital commerce."

FACULTY/STAFF NEWS

Chancellor George Bugliarello was the honoree at the annual dinner of the Society for Italian Culture of Long Island, held December 2.

President David C. Chang was named by New York City Mayor Michael Bloomberg to his transition committee. He is one of 56 people who advised the new mayor on形成 his administration.

Dr. Yi-Jen Chiang, assistant professor of computer science, and co-principal investigators Dr. Nasir Memon, associate professor of computer science, and Dr. Han-Wei Shen from Ohio State University, received a $381,992, three-year grant from the NSF Advanced Computing Research program, for their research project "Integrated Compression and Out-of-Core Techniques for Large Time-Varying Data Visualization."

Ellen F. Hartigan, vice president of student affairs, was appointed to Community Board 2 by former Brooklyn Borough President Howard Golden.

Dr. Noel N. Kriftcher, director of the David Packard Center of Technology and Educational Alliances, and Dr. Jerome S. Epstein, instructor of mathematics, were awarded a $111,000 contract from the NYC Board of Education to offer a professional development course in "Real World Mathematics" for middle and high school teachers.

Dr. T.K. Kwei, research professor of polymer chemistry, received a 2001 ISI Citation Classic Award from the Institute for Scientific Information/Thomson Scientific. The award recognized Kwei's research documented in a published paper, "The Effect of Hydrogen Bonding on the Glass Transition Temperatures of Polymer Mixtures."

Dr. M. Volkan Otuğen, associate professor of mechanical engineering, has been appointed for a three-year term as associate technical editor of the Journal of Fluids Engineering, an international journal for fluid mechanics research.

Dr. Eli M. Pearce, university research professor, was granted his fifth patent. He and three co-inventors developed a miscible polymer blend to increase the thermomechanical heat stability of an important polymer, polyvinyliden fluoride, making it strong and stiff and useful in the construction and electronics industries.

Donald S. Phillips, lecturer of psychology, was reelected to a two-year term as president of the New York Paleontological Society.
ALUMNI PRESIDENT'S CORNER

Dear Fellow Alumni,

I want to share with you excerpts from an editorial in a Romanian newspaper. The language is occasionally awkward because of translation, but the meaning is unmistakable.

AN ODE TO AMERICA

"WHY ARE AMERICANS so united? They don't resemble one another even if you paint them! They speak all the languages of the world and form an astonishing mixture of civilizations. Some of them are nearly extinct; others are incompatible with one another, and in matters of religious beliefs, not even God can count how many they are.

"Still, the American tragedy turned 300 million people into a hand put on the heart. Nobody rushed to accuse the White House, the army or the Secret Service... Nobody rushed to empty their bank accounts... The Americans volunteered to donate blood and give a helping hand. After the first moments of panic, they raised the flag on the smoking ruins, putting on T-shirts, caps and ties in the colors of the national flag. They placed flags on buildings and cars... On every occasion they started singing their traditional song 'God Bless America'...

"...The American's solidarity spirit turned them into a choir. Actually, choir is not the word. What you could hear was the heavy artillery of the American soul...

"I don't know how it happened that all this obsessive singing of America didn't sound croaky, nationalist or ostentatious! It made you green with envy because you weren't able to sing for your country without running the risk of being considered chauvinist, ridiculous or suspected of who-knows-what-mean interests. I watched the live broadcast [of a televised charity concert] and its rerun for hours, listening to the story of the guy who went down 100 floors with a woman in a wheelchair without knowing who she was, [and] of the Californian hockey player who fought with the terrorists and prevented a plane from hitting a target that would have killed other hundreds or thousands of people. How on earth were they able to bow before a fellow human?

"Imperceptibly, with every word and musical note, the memory of some turned into a modern myth of tragic heroes. And with every phone call, millions... of dollars were put in a collection aimed at rewarding not a man or a family, but a spirit, which nothing can buy. What on earth can unite the Americans in such a way? Their land? Their galloping history? Their economic power? Money? I tried for hours to find an answer... but I reached only one conclusion.

"Only freedom can work such miracles."

With best wishes in the New Year,

[Signature]

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GIVE OUR REPUTATION A BOOST

Alumni are keenly interested in Polytechnic's ranking in various national surveys. What most alumni don't know is that they can help impact our ranking. When ranking universities, all the major surveys examine a number of factors, including the percentage of alumni who contribute to their alma mater on an annual basis.

Currently, a modest 15 percent of Polytechnic alumni contribute to either the Polytechnic Fund or various special campaigns. We are grateful if you are among our loyal donors. However, to increase our standing in national surveys, we must have more participation in our annual fundraising efforts.

So, when you get a call from a phonathon student or receive an appeal letter in the mail, please remember that your gift is a vote of confidence in your University and a way to express your desire to see your Polytechnic degree increase in value.

—Donald N. Ixionoff Jr.
Director of Alumni Relations and Individual Giving
NoCal Alumni Get Cards Punched at Computer History Museum

by Neil Witter ‘73

Those of us of a certain age may remember a time before flat-screen monitors or wireless mice, before Unix, GUI or WYSIWYG, before CD-ROM drives or even floppy disks. We can remember an era of punch cards and tape reels, room-sized computers and disk drives that resembled washing machines.

Alumni from Northern California walked down memory-chip lane on November 15 as they toured the Computer Museum History Center at Moffett Field, Calif. The museum (www.computerhistory.org) was established by Poly Trustee Dr. Leonard J. Shustek ’70 ’70 to collect and document the history of the computer age, an era barely more than half a century old. Many Poly alumni have experienced the entire computer era within their own lifetimes. (See the fall ’01 issue of Cable for an article on Shustek and the center.)

During the tour, conducted by Shustek, alumni commixed with old friends from bygone computing projects and viewed the forgotten ancestors of today’s microchipped, megahertzed, gigabyte-d Internetted world, and the seeds of what well may become the world’s preeminent repository of computing history.


Alumni Meet the Next Crop of Poly Students

AN ALUMNI/STUDENT MIXER, sponsored by the Big Apple Section, brought more than a dozen alumni back to campus in November to reunite and meet new students. Attendees included Julian Abramovicz ’87, Laurence Dally ’90, Dinesh Gambhir ’92, Haldun Hadimoglu ’91, Howard Heetman ’68, Spencer Kornos ’90, Edward Messina ’55, James Ossami ’77, Anthony Palazzolo ’72, Nick Russo ’73 and Richard Thorsen ’63 ’67.

The mixer was an opportunity for three former editors of The Reporter, Poly’s student paper, to reminisce. Pictured from left, are, Jenlana Matic ’98 ’91, Elizabeth Crenin ’88 and William Marin ’96 ’99. If you have any favorite Reporter memories, e-mail them to Therese Tillet at tillet@poly.edu.

A Look Back

THE YEAR WAS 1956. Dwight D. Eisenhower was re-elected president, the New York Yankees defeated the Brooklyn Dodgers to win the World Series and father and son Henry and Bede Liu were both awarded a master’s degree in electrical engineering at Polytechnic’s 1st commencement. Bede Liu went on to earn a doctorate in electrical engineering from Poly in 1960.

Henry Liu came to the United States from Taiwan in 1952, lived on the upper West Side of Manhattan and worked as an engineer for American Cyanamid. Drawn by Poly’s reputation in electrical engineering, Liu, at age 48, began his graduate education as an evening student.

Bede joined his father at Poly following graduation from Taiwan University in 1954. Yet they never shared the same class. “My father’s concentration was in power transmission, while I studied communications,” explains Liu.

“However, we were both taught by the legendary Professor Athanasios Papoulis, though at different times.” The senior Liu, now 96, is retired and living in New Jersey. Bede Liu is a professor of electrical engineering at Princeton University.

“My father and I had a wonderful time at Poly,” says Liu. “and we hold many happy memories from that period in our lives.”
Casper J. Bowman (AE) turned 91 in 2001. He lives on Long Island and is a retired aeronautics engineer.

Gaetano Ballirano (CI) is retired and volunteers for a senior citizens center in Johnstown, Penn.

Edwin E. Morfit (CI) celebrated his 82nd birthday in September 2001.

Gus G. Duke (EE) keeps in touch with his Alpha Chi Rho brothers from Poly.

Charles J. Knuth’s (CE) ’47 (CE) ’47 (CE) wife, Nancy, died in 2001; just weeks before their 50th wedding anniversary.

Richard S. Stein (CH) ’69 (CH) is the Goessmann Professor of Chemistry Emeritus at the University of Massachusetts in Amherst. He was a visiting professor at Georgia Technical and Louisiana State University in 2001. He now serves as co-chair of the Exhibits Committee of the National Plastic Museum in Leominster, Mass.

Jagdish C. Agarwal (CE) ’51 (CE) works in the environmental and energy sector. Samuel Krim (CH) retired in June 2001 after 49 years as a faculty member in the Department of Physics at the University of Michigan. Arthur Rossoff (EE) founded and led the development of a Long Island Museum of Science and Technology. He is also consulting with Poly’s CATT and Graduate Center for Professional Studies.

John L. Hipp (EE) is chairman of the North Bay fire district commissioners in Florida. He is also a master gardener for Okaloosa County as well as a Lion and part-time docent for Okaloosa Walton Community College. Karl M. Schau (CI) and wife, Madeline, live at Westminster at Lake Ridge in Virginia.

Howard E. Anderson (MT) and wife, Ruth, celebrated their 50th wedding anniversary in September 2001. They have five children and nine grandchildren and live on Staten Island. Howard retired from the New York City Department of Environmental Conservation. D. Lester Dubov (ME) retired on 1997 from the Machine Components Corporation. He travels between homes in Boca Raton, Fla., and New York. He was matriculated as a senior scholar at the University of Wisconsin. Edwin J. Sutphin (ME) lives in Anchorage, Alaska, and is a retired project engineer.

Robert B. Marcus (EE) turned 80 in 2001 and still hikes every Sunday with the Wanderers Hiking Club of Washington, D.C. Walter N. Olson (ME) ’65 (ME) ’70 (CS) is active in his local church, historical society, and other volunteer and community groups.

Edward M. Yanis (EE) ’59 (EE) published his second book, Riding the Bull, Beating the Bear: Market Timing for the Long-Term Investor, in December 2001 (John Wiley & Sons). He is chairman and CEO of Yanis Financial Services Inc.

Monroe J. Hordon (MT) retired from Xerox in February 2001.

Nicholas M. Canaris (CH) is happily retired and living in Atlanta, Ga. David N. Dry (EE) ’80 (EE) and wife, Joan, celebrated their 47th wedding anniversary in Niagara Falls in September 2001. Byron G. Schieber Jr. (ME) is a member of the Executive Committee of the ASME Long Island Section and is the college relations...
56 richard coren (ph) '60 (ph) retired after 35 years at drexel university as a professor of electrical and computer engineering. edward mcassey (me) '59 (me) is associate dean and acting dean for the 2001-02 academic year of the college of engineering at villanova university. frank p. presti (me) has been retired for the past nine years and is a tax volunteer for aarp and volunteer at the florida institute for the blind. harold walvick (ce) retired in 1996 as a manager of engineering and process development of boden inc.'s plastics resistive division. arthur j. worth (me) is 80 and retired in new hampshire. he owned turn-of-the-wheel pottery studio, is still a potter and an avid downhill skier.

57 pedro e. marques (me) retired after 33 years with grumman aerospace corporation.

58 eli m. pearce (ce) took office in 2002 as president of the american chemical society. victor silzer (ee) celebrated his 81st birthday in 2001 and is a retired engineer from grumman corporation's space station.

59 angelo r. de giralamo (ee) lives in greensboro, n.c., with anne, his wife of 42 years. they have eight daughters and five grandchildren. fred h. sindel (me) retired in 1999 after more than 40 years with the general electric company.

60 thomas s. scrappy (m) was elected first selectman of the madison, conn., board of education.

61 stanley j. silverberg (ee) is a senior trademark counsel of the whitehall division at american home products corporation in madison, n.j.

62 arthur miller (ae) '67 (aa) retired in march after 35 years with northrop grumman. nikitas f. panay-otou (ee) is president of trc engineers inc., a subsidiary of trc companies inc. he and his wife of 36 years, penny, live in connecticut and have three children. dorrie, frank and nick. lester rubenfeld (ma) is a professor of mathematical sciences and director of the center for initiatives in pre-college education at sennelayer polytechnic institute.

63 george a. debari (ce) retired in 1998 from inco limited as director of nickel-plating products. he consults for inco and is active in astm and iso standards development.

64 george e. bernardin (ce) is retired as general service manager for lucent technologies.

65 marvin bernfeld (ee) was elected a fellow by the ieee for his contributions to the development of high-resolution radar tomography. howard n. franklin (ae) '66 (am) '70 (am) is a technical development manager at hitachi america ltd.

66 morris l. blatt (ee) is owner of on trac solutions, a competitive-intelligence company based in west windsor, n.j. anthony dailleo (ee) retired after a 40-year career teaching mathematics and computer science at john's university and city university of new york. daniel levine (ee) relocated his consulting company, product safety solutions, to basking ridge, n.j. stan mongin (me) is a former building manager of the brooklyn academy of music and new york's carnegie hall and currently works at maple bank farm and river bank farm in roxbury, conn. he is a member of the board of directors of the roxbury library. viraht sahni (ee) '72 (bf) is the brookhaven professor of theoretical physics at brooklyn college and the graduate school of the city university of new york.

69 vincent caveseno (cf) is publisher of supply chain management review. nicholas p. guarriello (ee) is president and ceo of r.w. beck inc., a consulting and engineering firm. he and wife, jean, live in orlando, fla., and have three children, james, nicholas and julie. allen retblatt (ae) wrote a paper on "bubble analogy and economic output."
72 COLIN W. BROWN (EE) '75 (EE) is an assistant professor of mathematics and computer science at Denison University in Granville, Ohio. SHELDON H. MESSING (CH) is a senior company development manager in Dow Chemical Company's custom and fine chemical business. He celebrates 30 years with Dow in December. SAMAR SINHARAY (PH) is chief scientist at Essential Research Inc., where he is helping develop high-efficiency space solar cells.

73 JOHN J. CLARK (TP) is director of transportation services for Loudoun County, Va., home to Dulles Airport. PAUL W. JAGODZINSKI (CH) is the head of the Department of Chemistry and Geochemistry at the Colorado School of Mines in Golden, Colo. His e-mail address is pwjag@mines.edu. LAUREN S. MCCREADY (H) cruised the Caribbean last year on a 78-year-old schooner named Mandalay. ROBERT YAUCH (CE) is director of construction for the New York Housing Authority.

77 STEVEN M. FREEDMAN (CH) is writing a novel, which has been several years in the making. CHRISTOPHER C. SWAN (EN) is general manager of Connecticut Light & Power. He lives in Westport, Conn., with wife, Carol, and two college-age children.

78 ANDY PAPDEMETRIOU (ME) is executive vice president for quality at Information Resources Inc. of Chicago.

80 URSULA M. BURNS (ME) is president of the Document Systems and Solutions Group at Xerox Corporation.

81 STEPHANIE FARMBMAN WHITE (CS) '87 (CS) is a professor of computer science at the C.W. Post campus of Long Island University. She is also president of System World, which develops systems-engineering technologies.

83 PATRICK JEFFERS (TP) received a Minority Information Systems Doctoral Scholarship from the KPMG Foundation. The scholarship allows him to pursue a doctorate at Ohio State University and is renewable each year. JAMES KUVEIKIS (EE) '85 (EE) lost older brother, Thomas, a firefighter, in the World Trade Center attack on September 11. PAUL SAMSON (CE) is founder of Daystar Materials Inc., a supplier of raw materials for electrical insulation products. He holds a patent on the purification of atapulgite clay.

84 PATRICIA MUKSA MARCIANO (ME) was a Republican candidate last November for the Guildford Town Board, outside Albany, N.Y. She lives in Altamont, N.Y., with her husband and two teenage sons.

85 PATRICK L. DAIGLE (EN) is a project manager and senior associate at Malcolm Pirnie, an environmental engineering firm. He was recently elected councilman of the Lewisboro, N.Y., Town Board.

87 ALI MOHAMEDI, PE, AIA (MG) is senior vice president of e-business operations at Structure Tone Inc.

90 PAUL FEDERICO (CS) '93 (CS) is living in Marlboro, NJ, with his wife and daughter.

91 GERARDO T. SAVORETTI (EE) '98 (CS) and wife, Donna, welcomed son, Joseph-Antonio, in July 2001.


93 ROBERT FITTON (EE) is a program manager at Symbol Technologies and lives with his wife in St. James, N.Y.

95 KEVIN J. MCKENNA (CH) and wife, Kimberly, welcomed their second child, Kevin James II, in September 2001 to the thrill of big sister, Casey. ANNA SCHERBINA (JE) received a 2001 Business Doctoral Dissertation Award from the State Farm Companies Foundation for her paper on "Price

BEANPOT ALUMNI CHEER BLUE JAYS

Members of the Beanpot Section of the Polytechnic Alumni reunited in December at a basketball game in Boston that pitted the Poly Blue Jays against the MIT Engineers. After the game (MIT won), the group attended a reception with team members and coaches. Showing the Poly spirit at the event were, from left, George Cha '70; Richard Thorsen '63 '67 and his wife, Barbara; Gurinder Bhatti '03; Steve Garone '73; Jack Babakian '40; Lynn Garone '75; and Steve Iacobelli '03. More photos are available on Poly's Web site www.poly.edu/alumni.
Formation in the Presence of Divergent Beliefs. She is attending Northwestern University.

EDMUND J. COLETTI (EE) is director of facilities management at Helen Hayes Hospital in Rockland County, N.Y. ANTHONY VETRO (EE) '01 (EE) is a principal member of the technical staff at Mitsubishi Electric Research Laboratories. He married Marny Torrigiani in October 2001 and lives in Short Hills, N.J.

MICHAEL A. CHOLEWKA (CI) is a project officer with the NYC School Construction Authority and is working on a $200-million project at the Glen Oaks Campus in Queens.

ANTHONY S. HALL (MN) is a network engineer for the County of Westchester, N.Y. MICHAEL LEONE (EE) is a project manager for Lennic Construction Corporation in Brooklyn. REBECCA H. SEIFF (ME) is a process/manufacturing engineer at Corning Technologies in Clifton, N.J.

IBRAHIM ALMOHAMMAD (ME) was married in 2001. DAVID L. MILLER's MG daughter, Jacklyn, graduated from Columbia University Graduate School in Public Health and is a consultant with Deloitte Consulting. SELENA M. MUZZO (CI) is a structural design engineer for Conner Townsend Envirotec Engineers in Manhattan.

JASON FELICIANO (TM) is a publishing traffic coordinator for Thomas Publishing where he proof reads and handles advertising orders. MARK HOFFMAN (CS) is an assistant professor of computer science at Quinnipiac University in Hamden, Conn. NICOLAS MAHEDY (MOT) married Megan Sheehan in October 2001 in Brooklyn. He is a manager of computer software development at Digital World Services, a subsidiary of Bertelsmann.

HOMER HOWELL '98 (EE) and Nancy J. Silva '98 (JW) met as freshmen taking a summer course. In August they exchanged vows in Mineola, Long Island, with Vincent Teicheira '00 (CS) serving as best man. Howell is an information specialist for Logicon Inc., a subsidiary of Northrop Grumman, and is currently on contract with Poly, working on the Westchester campus. Silva is a product manager for Information Builders Inc.

IN MEMORIAM

PASQUALE A. RAZZANO ’56 ’64

1918–2001

Pasquale A. Razzano ’56 ’64, a decorated veteran, professional engineer and former Poly lecturer, died October 21, 2001, at home in Rockaway, N.J. He was 83. Born in Brooklyn, Razzano joined the Army Air Corps during World War II, serving as a staff sergeant with the 9th Air Force, 559th Bomb Squadron, 387th Bomb Group in England and France. He was awarded a Bronze Star for developing a system to increase the bomb load of a B-26 bomber. He later co-founded the 559th Bomb Squadron Association and served as its secretary-treasurer for 20 years.

Following the war, Razzano enrolled in Polytechnic in 1948 on the GI Bill. He worked days at the New York City Transit Authority and took night classes at Poly before earning a BS in Civil Engineering in 1956. In 1960, he returned to Polytechnic, this time with his oldest son, Pasquale Jr., a civil engineering major. While Razzano Sr. worked toward his master’s in civil engineering at night, Razzano Jr. attended the school during the day. In 1964, both received diplomas at the University’s commencement. For several years in the late 1960s, Razzano Sr. taught civil engineering courses at Poly. He joined the New York City Department of Purchase soon after receiving his MS and retired in 1982 as director of the department.

In addition to his oldest son, he is survived by his wife of 60 years, Agnes; son Frank and a daughter, Theresa Oliverira; a sister, Josephine Cardone; and nine grandchildren.

IRA ZASLOW ’67 ’71

1946–2001

In the aftermath of personal tragedy, healing is often measured in small increments. For Felice Zaslow and her sons, Bryan and Adam, the first step toward healing came with the discovery of her husband’s body amid those of firefighters who died in the September 11 attack at the World Trade Center. “It was comforting to know that Ira was found...his body intact...his wedding ring still on his finger,” said Felice, his wife of 31 years. “We were able to give him a graveside funeral service. That was very important.” An earlier memorial service at Temple Hillel in Northwoodmere on Long Island was attended by more than 10,000 people, including family, friends, and co-workers who gave testimony to a life well lived.

For the last 10 years, Ira Zaslow ’67 ’71 worked as a business analyst for Lehman Brothers on the 38th floor of the North Tower. On September 11, he went to the Sky Cafeteria on the 43rd floor for breakfast and became trapped when the first plane hit. Lehman Brothers plans to fund a scholarship in Zaslow’s name, which Felice wants to give to a deserving Polytechnic student.

An avid sports fan, Zaslow enjoyed rooting for the New York Knicks and playing volleyball and basketball. Dedicated to family and friends, he is remembered for his compassion for the less advantaged. He received a bachelor’s degree in systems science in 1967 and a master’s degree in operations research in 1971, both from Polytechnic, and an MBA from Adelphi University.
SAVE THE DATE

POLYTECHNIC ALUMNI

Annual Meeting

&

Silver Jubilee of the Class of '77

Thursday, June 6, 2002

5:30 p.m.
Alumni Reception
Foyer, Dibner/CATT Building

6:30 p.m.
Annual Meeting of the
POLYTECHNIC ALUMNI
Open to all alumni

7:30 p.m.
Annual Alumni Dinner
Silver Jubilee Induction Ceremony
for Class of '77
Alumnus/a of the Year Award Presentation
Big Apple Section

For more information regarding
the Silver Jubilee or the Annual Meeting,
please contact the Alumni Relations Office
at 800/FON-POLY
or call Donald Ivanoff or Gillian Marshall at
718/260-3885
or e-mail alumni@poly.edu.

Golden Jubilee of the Class of '52

If you are a member of the Class of '52
and have not received information
regarding your class' Golden Jubilee festivities
from May 31 to June 3, 2002,
please contact Gillian Marshall
at 800/FON-POLY, 718/260-3885
or gmarshal@poly.edu.

LAST ISSUE'S POLY QUIZ

In the last issue's Poly Quiz, two important pieces were accidentally omitted:
1. A letter was missing from the equation
2. There is a restriction to the quiz that none of the numbers be 0.

Thank you to all who tried to answer the quiz without the above two pieces.
We're giving you all a chance to try again.

Question: If you substitute a numerical digit for the following letters, what do you get?

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>E</td>
<td>D</td>
<td>B</td>
<td>A</td>
</tr>
</tbody>
</table>

Remember, none of the numerical digits should be 0.

Send your answer to
Therese E. Tillet
E-mail: tillet@poly.edu
Fax: 718/260-3084
Mail: Polytechnic University
Six Metro Tech Center
Brooklyn, NY 11201

We All Make Mistakes,
Including Jack Welch

Does Jack Welch, the retirees chairman and
CEO of the General Electric Company, wish he had earned his bachelor's degree at Polytechnic University? That could be because he graciously gives Poly a tip of the hat in his biography, Jack: Straight From the Gut.

Welch, who retired in 2001, earned his bachelor's degree from the University of Massachusetts at Amherst and his master's and PhD from the University of Illinois at Chicago.

Describing his first year at Illinois, Welch says he had to struggle and fight for his grades.

"At Illinois," he writes, "I wasn't as well prepared as the kids from Brooklyn Polytechnic, Columbia or Minnesota."

Thanks, Jack. We love the acknowledgement and are sorry we can't count you among our many distinguished alumni.