STEPHANIE STEFFEK MITCHKO ’87
WINS FIRST-EVER MEDIA TECH
EMMY AWARD

NATIONAL TELEVISION ACADEMY
Letter to the Editor

I enjoyed the article about Professor Zivan Zahar (“Restoring Electric Power with Precision”; Cable, fall 2003). Let me say something about him and Professors Enrico Levi and Leo Birenbaum: These three experts tried their best to teach me about electric power systems, and until now, I never really thanked them. Well, better late than never.

I am the manager of electric power supply at KeySpan/LIPA, responsible for operating the transmission system of the Long Island Power Authority. Needless to say, the 26 hours spent restoring the 5,000MW Long Island electric system from the 2003 blackout was the most horrifying, challenging and rewarding of my professional life. In the early morning hours of August 15, my team was ready to synchronize two halves of the LIPA system together. As we prepared for this event, an incident in Professor Birenbaum’s motor lab came to mind. The purpose of this particular lab was to instruct us on the proper methodology for synchronizing a generator to the electrical grid. The lab experiment was successful; however, I wanted more. What would happen to the small lab generator if it was connected to the grid out of synchron? To Professor Birenbaum’s horror, I “successfully” completed my experiment! To my surprise, I even received a passing grade that semester. I decided not to repeat my experiment on LIPA’s transmission grid, and my team performed flawlessly in synchronizing the two halves together. Upon completion, I breathed a sigh of relief and said to myself: “Leo Birenbaum, if you could see me now. Thanks!”

Theodore G. Pappas ’79 ’83 (EE)
Long Island, N.Y.

Professor Birenbaum replies:

I well remember [Pappas’s experiment]. During one of the four-hour-long lab sessions, I suddenly heard the “small” (5kW) synchronous machine screaming for mercy. I raced over to the lab station to try to prevent disaster. Would the machine tear itself off the I-beams to which it was anchored? Would all of Rogers Hall lose power? Would all of the current meters, which were madly and repeatedly pegging themselves, be destroyed? Worse yet—would one of us in the lab be injured?

None of the above happened. Mr. Pappas, his lab classmates and his professor all survived—Mr. Pappas with an A—, and his professor without a heart attack.

Now, 35 years later, I learn Mr. Pappas’s transgression actually stood him in good stead—and in addition, all the people of Long Island profited. Who could predict?

Professor Birenbaum ’58 (EE) ’74 (PH) retired in 1993 after 35 years of teaching, but continues to work with Professors Zahar and Dariusz Czarkowski on research contracts with KeySpan and Con Edison. Next year, Professor Zahar will celebrate 30 years of teaching electrical engineering students at Poly. Professor Levi ’56 ’58 (EE), who taught at Poly for almost 25 years, died in 2000.

2004 COMMENCEMENT
Celebrating 150 years in Brooklyn

COMMENCEMENT AWARDS RECEPTION AND CEREMONY
Dibner Foyer and Auditorium • Tuesday, May 25, 2004, at 7:00 p.m.

CLASS OF 1954 GOLDEN JUBILEE CELEBRATION
Wednesday, May 26, 2004

COMMENCEMENT AND CLASS OF 1954 GOLDEN JUBILEE INDUCTION CEREMONY
Avery Fisher Hall, Lincoln Center • Thursday, May 27, 2004, at 3:00 p.m.

For more information about:
Commencement—Contact Kate Smith at 718/260-3137 or ksmith@poly.edu
Reunion 2004—Contact Zahra Patterson at 718/260-3561 or zpatters@poly.edu
POLY ALUMNA AWARDED FIRST-EVER EMMY FOR ADVANCED MEDIA TECHNOLOGY

Emmy Award winner Stephanie Steffek Mitchko ’87 and her colleagues at Cablevision.

Stephanie Steffek Mitchko ’87 (EE) has made television history.

The National Television Academy has honored Mitchko with the first-ever Emmy Award for outstanding achievement in advanced media technology for the creation of non-traditional programs or platforms. Mitchko, vice president for interactive platform development at Cablevision Systems Corp., and her colleagues were recognized for their work developing technology behind digital television delivery systems, including Video on Demand and interactive television with broadcast components.

“It comes as no surprise to me that Stephanie was instrumental in developing the technology that led to an Emmy Award,” says Dr. Peter Volz, associate professor of electrical and computer engineering. “Ever since she was a student at Poly her trademarks have been technical smarts, leadership and a drive to do creative things.”

Mitchko, who earned a bachelor’s in electrical engineering, hails from a family of Poly graduates: Her father is Leonard Steffek ’60 (EE) and her uncle is Edward Drobney ’54 (EE).

Prior to joining Cablevision in 1997, Mitchko was president and CEO of IRT Inc., a consulting company that worked on a variety of product development projects, including electric vehicle prototyping for LILCO and personalized energy systems research for Allied Energy Corp. Previously, Mitchko spent five years running the electronic warfare division of Digital Signal Corporation, where she developed kill-assessment technology for the U.S. Navy and Air Force and held a top-secret clearance.
Blue Jays Bring Home the Championship Again

For the second year in a row, the Fighting Blue Jays basketball team won the Hudson Valley Men’s Athletic Conference Championship, defeating the SUNY Purchase Panthers 95-82. The Lady Blue Jays followed the men’s team to victory, defeating Bard College 59-35 in the Hudson Valley Women’s Athletic Conference inaugural basketball invitational, held on Polytechnic’s home court.

Dale Smiley ’06 led the Blue Jays to victory with 24 points. Guard Eric DeSplinter ’07 had 21 points, six rebounds and four assists, and guard Lindon Ivezaj ’07 finished with 17 points and five rebounds. Forward Perry Seale ’07 had a career high of 15 points, and point guard Christopher Jean ’06 finished with nine points and a season high of 10 assists. Smiley, DeSplinter and forward Abou Bamba ’06 were named to the HVMAC All-conference Team.

Leading the women’s win were Tournament MVP Nil Simsek ’04, forward/guard, with 18 points, 15 rebounds, eight steals and five assists; Marcy DeSio ’06, forward, with 14 points and four steals; Deanna Brown ’06, forward/guard, with 12 points and five rebounds; and Nicole Scipione ’07, forward/guard, with 10 points and four assists. Simsek was also named to the HVMAC All-conference Team.

The men’s team, under Coach Laddy Baldwin, finished 13-13 overall and 8-2 in the conference, winning its final three games and reaching its first .500 since 1996, when it finished 13-12. The women’s team, under Coach Jimmy Barrett, finished 11-15 overall and 5-4 in the conference.

Poly Joins Reorganized Regional Conference

In February, Polytechnic joined 11 other NCAA Division III colleges from three states to form a new-look North Eastern Athletic Conference (NEAC). The expanded NEAC will offer a full slate of championships in 12 sports and will be split into two, six-team divisions to reduce travel time and costs. The NEAC will be eligible for automatic Division III tournament qualifier status in 2006-07. Polytechnic currently offers 17 intercollegiate programs: men’s baseball and judo, women’s softball and men’s and women’s soccer, volleyball, basketball, tennis, cross country and indoor and outdoor track.

BE A PART OF HISTORY

Help sponsor the many exciting events celebrating Poly’s 150th anniversary. Sponsorship opportunities start at $1,500. To join in the sesquicentennial fun, contact Thomas Daly at 800/765-9929 or tdaly@poly.edu.
Polytechnic Hosts 2004 Future City Regional Competition; Winning Team Finishes Second in Nationals

For the seventh consecutive year, Polytechnic was the site for the Future City Competition regional finals, where seventh- and eighth-grade students exhibited computer and 3-D models of a city of tomorrow. The event was organized by Poly’s David Packard Center for Technology and Educational Alliances and the Metropolitan Section of the American Society of Civil Engineers. First place went to the city “Glacialis,” created by James Gippetti, Michael Gippetti and Mark Reischel from Valley Middle School in Oakland, N.J., (pictured with competition coordinator Cengiz Mumcuoglu, left, and Packard Center Executive Director Dr. Noel N. Kriftcher). The students went on to clinch second place and win a special award for best transportation system at the Future City National Finals in Washington, D.C.

High School Students Compete at Science Fair at Poly

NYC Schools Chancellor Joel I. Klein talks with Paloma Bain, a senior at Franklin K. Lane High School, about her project researching methods to date a millions-year-old tooth. Bain was among 250 area high school students who competed at the 2004 New York City Science, Mathematics & Technology Regional Fair, held in March at Polytechnic. From the participants, 18 finalists were chosen to attend the 55th Intel International Science and Engineering Fair. The regional fair was sponsored by the NYC Department of Education, the New York Academy of Sciences and Polytechnic’s Center for Youth in Engineering and Science (YES Center).

150 YEARS OF POLYTHINKING!

Polytechnic University is 150 years old and ready to celebrate! The launch of our Sesquicentennial Celebration will occur at Commencement on May 27, 2004. This event marks the beginning of 18 months of recognizing the University and its illustrious contributions to science, engineering and technology. The next six issues of Cable will be devoted to covering Polytechnic’s rich history and celebratory events taking place on and off campus. Alumni can also visit www.poly.edu/150 to learn more about Poly’s past, present and future.
Gerald Liebling and the Importance of Giving Back

Hippos are very territorial. Just ask Dr. Gerald Liebling '59 (Chem).

Three years ago, Liebling traveled to Zimbabwe, Africa for a spectacular view of the solar eclipse. While there, he and his wife of 34 years, Eun Sook, traveled down the Zambezi River, the primary watering hole for hippos in the area, by canoe. When the couple's canoe passed over one of the submerged mammoths, the animal flung it across the river sending the Lieblings into the water. Fortunately, they were unhurt and were rescued by another canoe on the safari.

A voracious world traveler who has crisscrossed the globe, the Brooklyn native has always had a keen sense of adventure and an avid interest in science, math and technology. "At five or six years old," recalls Liebling, "when people asked me what I wanted to be when I grew up, I'd always say, 'A spaceman, so I can land on the moon.'" Although he did not become an astronaut, he has enjoyed a fascinating and lucrative career in software development for nearly four decades. He began his career in General Electric's Space Division monitoring missile tests at sites in White Sands, New Mexico and the Marshall Islands in the South Pacific. He remained in the division when it was sold to Lockheed Martin in 1993. Today, he is a staff commercial application software engineer in Valley Forge, Pennsylvania, responsible for designing computer systems that control spacecraft and missiles.

According to Liebling, his professional success is due in large part to the education he received at Polytechnic. "I came from a working-class family, and my parents could not afford to send me to college out-of-town," says Liebling. "I was interested in studying chemistry, and Poly was the best in the city." He received a bachelor's in chemistry from Poly in 1959 and went on to earn a master's in computer science from the University of Pennsylvania, an MBA from Temple University and a PhD in chemistry and physics from the California Institute of Technology.

As a member of Poly's Alpha Phi Omega Service Fraternity, he established a close relationship with Dean Henry Q. Middendorf '70, who served as the group's adviser. Liebling's involvement with the fraternity sparked a fervent interest in community service—something that remains important to him to this day. After losing touch for many years, he reconnected with Middendorf through a mutual fundraising initiative for his local library in Blue Bell, Pennsylvania, where, coincidentally, Dean Middendorf had also moved. "Dean Middendorf's name was listed among the donors," says Liebling. "On a hunch, I decided to check the telephone book for Middendorfs and there he was. I made the call and the rest, as they say, is history."

His indebtedness to Poly was the motivating factor in his decision to establish a unitrust benefiting the University. "I feel very strongly about the importance of giving back—whether to your alma mater or to the community where you live," he says. "I've held positions of quality and respect throughout my career and I feel obliged to acknowledge the University's role in my professional achievements. The trust benefits Poly and has great tax advantages, so it's really a win-win situation."

Join the Poly 100

Members of the Poly 100 support academically superior yet financially needy students. As a thank you, your name is etched on a head on a six-foot abacus in the lobby of the Dibner/CATT Building, and you are invited to an annual dinner to meet the Polytechnic president.

Membership: $10,000 a year for five years. To join the Poly 100, contact Thomas Daly at 800/765-9929 or tdaly@poly.edu or Colleen Jansen at cjansen@poly.edu.
Professor Mijovic Named Department Head

A 25-year educator at Polytechnic, Dr. Jovan Mijovic, professor of chemical engineering, has been appointed head of the Othmer Department of Chemical and Biological Sciences and Engineering.

Mijovic joined the Poly faculty in 1978 after earning a doctorate in chemical engineering from the University of Wisconsin at Madison. He received a Distinguished Teacher Award in 1999. His research—focusing on complex macromolecules, natural and biological, and the correlations between their structure, dynamics and properties—has been supported by the National Science Foundation for the past 20 years and other such agencies as NASA, Office of Naval Research, Air Force Office for Scientific Research and the National Academy of Sciences and Industry. He has published over 150 scientific papers in peer-reviewed journals and delivered over 100 invited lectures worldwide. In addition to his duties at Polytechnic, Mijovic is an adjunct professor in the Department of Engineering and Production of Materials at the University of Naples in Italy and has served as visiting professor at several universities in Europe, including the University of the Basque Country in San Sebastian.

Mijovic’s plans for the department are three fold: to promote new programs, increase enrollment and hire more outstanding faculty. Two programs especially are stirring his enthusiasm—Biomolecular Sciences and Chemical and Biological Engineering. “These fields reflect the emergence of biology as the enabling science for the 21st century,” he says, “and the need to interface it with other sciences and engineering.” He has also initiated the search to fill two endowed chairs in chemical engineering named for Donald F. Othmer and Joseph J. and Violet J. Jacobs.

Professor Gross Appointed PRI Director

Dr. Richard A. Gross ’86 (Chem), the Herman F. Mark Professor of Polymer Science, has been appointed director of Polytechnic’s Polymer Research Institute. Gross joined the Poly faculty in 1999 and, in 2001, established the nation’s first Center on Biocatalysis and Bioprocessing of Macromolecules, funded by the National Science Foundation. The center is developing new ways to produce environmentally friendly polymers using natural organisms. The Polymer Research Institute was founded in 1946 by the late Dr. Herman F. Mark, internationally known as the “father of polymer science.” It was the first such academic facility in the nation devoted to the study and teaching of polymer science.

T.C. Westcott Named VP for Finance and Administration

Theresa C. (T.C.) Westcott, a 15-year veteran in business and operations management, has joined Polytechnic as vice president for finance and administration, overseeing the University’s offices of human resources, facilities management, student accounts, financial aid, financial operations, print shop, mailroom and web-related operations. Previously, she was senior vice president and CFO at Planned Parenthood of New York City. She has also served as vice president for corporate support services at Empire Blue Cross and Blue Shield. Her early career was as a registered nurse, working in the intensive care units at Mount Sinai in Manhattan and Peninsula Hospital Center in Queens. She earned a bachelor’s degree in hospital administration from Lehman College and an MBA from Columbia University.

Provost Griffis Inducted into NAC

In October 2003, Dr. E.H. (Bud) Griffis, provost, vice president and dean of engineering and applied sciences, was inducted into the newly established National Academy of Construction. The academy presently has 57 members, who are considered the very best of construction professionals. Griffis, a former colonel in the U.S. Army Corps of Engineers, joined Polytechnic in 2000 as a professor of civil engineering. In 2001, he established a Center for Construction Management Technology and oversaw the University’s $130-million construction and renovation projects on the MetroTech campus. He is pictured with NAC president Gary Jones.
IN MEMORIAM:
Frederick C. Kreiling

Professor Emeritus Frederick C. Kreiling, who taught at Polytechnic for more than 40 years, died February 29 in Brooklyn, N.Y. He was 81.

Kreiling’s career at Polytechnic spanned six decades—from 1948, when he was hired as a German instructor, to his retirement in 1992 as a professor of history of science. He joined the University shortly after serving in World War II, where he was a German translator for POWs in several campaigns, including the Battle of the Bulge. He earned a degree in economics from Hofstra University, and master’s and doctoral degrees in German literature and European intellectual history, respectively, from New York University. His main body of research was on Gottfried W. Leibniz, an 18th-century German philosopher, mathematician and logician. Music was also a passion; Kreiling taught a course at Poly on the history of jazz and was an accomplished bass player, performing professionally with many of the jazz greats, including Roy Eldridge, Coleman Hawkins and John Lewis and the Modern Jazz Quartet.

He is survived by his wife, Jean, a former secretary at Poly; a brother, George; daughters Deborah Kreiling and Beth Tambor; a stepson, William Lester; and two grandchildren. His daughter Susan Ramsey died in 2002.

Professor Levon Named USI Director

Dr. Kalle M. Levon, professor of chemistry and associate dean of research and intellectual property, has been named director of Polytechnic’s Urban Security Initiative. The initiative was created in 2002 to develop public/private partnerships dedicated to finding solutions to urban security issues through science, technology and engineering.

Levon, an expert in the electrical applications of polymers, joined the faculty in 1989. He served as head of the Department of Chemical Engineering, Chemistry and Materials Science from 1996 to 2001, and director of the Polymer Research Institute from 1998 to 2004.

Poly NSBE Chapter Receives NYC Proclamation

The New York City Council honored Polytechnic’s student chapter of the National Society of Black Engineers (NSBE) with a proclamation on February 23. The proclamation was for the chapter’s work launching a National Engineer’s Week Tour, during which Poly NSBE chapter members visited high schools to expose students to the world of engineering and the ways in which engineers impact society. The Poly chapter “has proven itself a tremendous educational benefactor and has enriched us with its contributions,” read the proclamation.

Among its many campus and outreach initiatives, the Poly NSBE chapter—now in its 25th year—runs several tutoring and mentoring programs for high and middle school students, and its members volunteer in the annual FIRST Robotics competitions and the KISS Institute’s Botball Robotics tournaments. The chapter also hosts alumni mixers and dinners, co-sponsors the University’s biannual Career Fair and sponsors weekend sessions of Math Mania to tutor Poly students before major math exams.

Holding the proclamation are Poly NSBE chapter members, from left, Maize Colbert ’07, Lamar McFarlane ’06 and NSBE chapter president Ainsley Stewart Jr. ’06.
ALUMNI NEWS

ALUMNI PRESIDENT’S CORNER

A couple of columns ago, I stressed the need for alumni to continually “up-skill” themselves and to willingly and flexibly manage change. I compare this need to learning a foreign language where our steadfast rules for tense and grammar don’t always work. To get ahead nowadays, we should constantly reach outside our safe zone of expertise and be ready to cast aside long-standing rules. An example is the exciting and interdisciplinary field of nanotechnology, which breaks many rules of scientific thought.

Society looks to scientists and engineers as problem-solvers. The president of the Cadillac Division of General Motors summed it up nicely when he recently said that an engineer’s job is to find innovative, purposeful enhancements to products and services that enrich lives.

One way in which the POLYTECHNIC ALUMNI is helping alumni expand their minds is its mentoring program, which I look at as a two-way flow of support—a chance for alumni to share their experiences with students as well as for senior alumni to learn from young alumni. In February, the Big Apple Section held its annual winter event in conjunction with the Metropolitan Engineering Societies Council, where alumni mingled with engineers, scientists, entrepreneurs and politicians (see photo on page 10). And, recently, we hosted at Poly the technical dinner meeting of the American Society of Mechanical Engineers so young and senior engineers, students and professors could meet, network and exchange ideas.

As we prepare to celebrate Polytechnic’s 150th anniversary, we shall continue to face challenges, both individually and as a community of higher learning, to stay on top of our game. We alumni should lead by example in this process. By keeping in mind that knowledge is most powerful when we use it to help people, together we will accomplish great things.

James Oussani Jr. ’77

Alumni Reunions in Taiwan and Japan

This March, President David C. Chang and his wife, Cecilia, visited Taiwan and Japan, where they met with alumni and dignitaries.

In Taipei, they attended an alumni reunion (pictured above), presented a citation to Tsing-Chin (Eugene) Wu, chairman of the Shin Kong Financial Holding Company, and met with Dr. Yuan-Sian Sun, former premier of Taiwan and a 1993 Poly honorary degree recipient.

In Tokyo, Chang met with alumni, including (pictured below), from left, Dr. Tsunen Nakahara, a Poly advisory trustee and executive adviser of Sumitomo Electric Industries Ltd.; Dr. Tadahiro Sekino, a 1998 Poly honorary degree recipient and former chairman of NEC, and Dr. Bun-Ichi Oguchi, a 1996 Poly honorary degree recipient and former president of Fujitsu Research Institute. More photos can be found on www.poly.edu/alumni, under “Recent Events.”

Calling Members of Poly’s Pershing Rifles

Alumni members of the Pershing Rifles, the ROTC military fraternity, reunited in February in Florida and are already planning their next reunion for Las Vegas. Former Pershing Rifles members who want to join the reunion should e-mail Herb Kern ’56 at h Kern51315@aol.com or Ed McGowan ’58 at pammncg@aol.com.

Alumni who attended the Florida reunion were Ed Desantis ’60, Carl Genna ’59, Werner Horlbeck ’57, Herb Kern ’56, Bernie MacInerney ’58, Ed McGowan ’58, Jack Mooney ’58, Sal Palumbo ’59, Rocco Ruggerio ’57, Gunther Strobel ’58 and John Yovino ’58.

Members of the Pershing Rifles, circa 1959.
SCHOLARSHIP RECIPIENT SNAPSHOT
Patricia Murphy ’06
BS, Electrical Engineering

PROMISE Scholarship
Stephen J. Meoli Memorial Endowed Scholarship
James Smith Scholarship

“Polytechnic’s scholarship program has enabled me to pursue my academic aspirations and brought me one step closer to achieving my goal of becoming an electrical engineer. Financial assistance can be very important to a student’s academic career, which is why I am grateful to have received these awards. I consider myself fortunate—these scholarships allow me to attend this university and carry out the endeavors that will lead to my success.”

To discuss your contribution to a scholarship program, contact Thomas Daly at 800/765-9929 or tdaly@poly.edu.

LEADERSHIP SEMINARS
Sharing their insights about professional success, Ronald Longhitano ’70 (AE) ’72 ’74 (AM), right, and William Schuster ’73 (EE), left, were recent guest speakers at two leadership seminars at Poly. Longhitano, president of Yorkshire Consulting Inc. and a senior consultant with the London Perret Roche Group, discussed value-based leadership with students. Schuster, president of Integrated Systems, a divisional unit of BAE Systems, stressed the importance of product management, the ability to deliver projects on time and within budget. The leadership seminars, sponsored by the offices of development and alumni relations, offer Polytechnic students the advice and business acumen of successful alumni and friends of Poly.

NEW YORK ALUMNI HOLD WINTER SOCIAL
Alumni from the Big Apple Societies Council Section joined forces with the Metropolitan Engineering and its celebration of National Engineers Week to hold its annual winter social. Attending the event, held February at the New York Academy of Sciences, were, from left, front row: Joachim Voss ’78, Zita Mishiyer ’99, Jim Oussani Jr. ’77 and Gus Strakis ’97. Back row: Marko Galvis ’02, Wasyl Kinach ’83, Professor Michael Greenstein, Greg Homanas ’77, Sunit Tidjani ’04, Howard Hechtman ’68, Feliks Zaslavskiy ’03, Thomas Mauro ’67, George Likourzos ’92 ’92 and Max Lee ’97 ’99.
Now You Can Read and Submit Class Notes Online. Visit www.poly.edu/alumni and click on “Class Notes Online.”

Alumni who haven’t sent their RSVP for the 60th anniversary reunion, May 26-27, should contact the Office of Alumni Relations at 718/260-3885 or alumni@poly.edu.

CHARLES N. KNUTH ’47 ’49 (ChE) is writing a family history; he’s up to volume five.

EARL W. ROSS (MT) is a consultant for GE Aircraft Engines in Cincinnati. He holds nine U.S. patents for turbine airfoil alloys.

SID DEUTSCH ’55 (EE) published a book of short science essays in 2003, entitled Are You Conscious, and Can You Prove It? He is a professor at the University of South Florida.

STANLEY MAZUR (EE) and his wife, Rose, spend their time between New York City and Santa Monica, Calif. They have three children and seven grandchildren. THEODORE SNYDER (ME) is post commander of the Jewish War Veterans of Long Island. HRANT H. YOUSOUFIAN (AE) is teaching a course in heating, ventilation and air conditioning at Fairleigh Dickinson University.

ANTHONY J. BIANCULLI (ME) has published the last volume, Bridges, Tunnels and Signals, of a four-volume work, titled Trans and Technology: The American Railroad in the Nineteenth Century (University of Delaware Press). Anthony is an ASME Life Fellow.

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DONOR SNAPSHOT
Steven M. Rittvo ’69 ’71
BS, Systems Engineering
MS, Transportation Engineering
Chairman, Urban Systems Associates Inc.
President, The Innovation Group
Trustee, Polytechnic University

$45,000 to the Poly 100 Fund
$25,000 to the Steven M. Rittvo Scholarship

“It is a real joy and privilege to be able to return life’s kindnesses. Without the support Poly provided to me as a student, I never would have been able to complete either of my degrees. Now, I want to ‘pay it forward’ and ensure someone else has the same opportunities given to me.”

To discuss your contribution to a scholarship program, contact Thomas Daly at 800/765-9929 or tdaly@poly.edu or Colleen Jansen at cjansen@poly.edu.

**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
- BE: Bio-Engineering
- BI: Biocomputing
- BiME: Biomedical Engineering
- BTM: Business & Technology Management
- CE: Chemical Engineering
- CM: Construction Management
- CpE: Computer Engineering
- CPS: Chemical Physics
- DMS: Dental Materials Science
- EB: Environment-Behavior Studies
- EE: Electrical Engineering
- EL: Electromagnetics
- EH: Environmental Health Science
- ES: Economic Systems
- EV: Environmental Engineering
- F: Financial Engineering
- HS: History of Science
- HR: Human Resources
- HU: Humanities
- HS: Humanities-Special
- I: Industrial & Applied Math
- IE: Industrial Engineering
- IC: Industrial Chemistry
- InSE: Information Systems Engineering
- ISE: Imaging Sciences & Engineering
- ISM: Information Systems & Management
- IO: Journalism
- LS: Liberal Studies
- LFS: Life Sciences
- LFSE: Life Science/Electrical Engineering
- MA: Mathematics
- ME: Mechanical Engineering
- MG: Management
- MS: Mathematical Statistics
- MM: Metallurgy & Materials Science
- MN: Manufacturing Engineering
- MO: Meteorology & Oceanography
- MGT: Management of Technology
- MS: Material Science & Engineering
- MT: Metallurgical Engineering
- NE: Nuclear Engineering
- OB: Organizational Behavior
- OR: Operations Research
- PH: Physical Metallurgy
- PM: Polymeric Materials
- PS: Polymer Science
- SE: Systems Engineering
- SS: Social Sciences
- Sys: Systems Science
- TC: Technical & Professional
- TC: Technical Communication
- TIM: Telecommunications & Information Management
- TM: Technology Management
- TP: Transportation Planning & Engineering
- TrM: Transportation Management
- US: Urban Systems Engineering & Management
- V: Wireless Innovation
50 ROBERT SPIEGEL '54 (EE) lives in New Braunfels, Texas, and is head of the Civil Air Patrol's Texas Wing Cadet Flight Academy which sponsors one-week training courses to teach cadets to fly.

51 ROBERT V. (ANDY) ANDERSON '57 (EE) retired after 52 years with Northrop Grumman and now lives in Spotsylvania, Va. WILLIAM I. BERKS (AE) '53 (AM) is vice president of Materials Technology Inc., which provides metal fatigue equipment for aerospace and highways. JAMES E. NASH (CE) couldn't abide retirement and now works full time as a construction consultant.

52 BYRON H. ARISON '67 (Chem) retired from Merck after a 56-year career, including four decades as a NMR spectroscopist. ARTHUR N. GILBERT (CE) reports that his wife, Bernice, died in January. They were married 62 years.

53 DONALD V. RICHARDSON (ME) retired after a 50-year career in teaching.

54 Alumni who haven't sent their RSVP for the Golden Jubilee Reunion, May 26-27, should contact the Office of Alumni Relations at 718/260-3885 or alumni@poly.edu. MONROE J. HORDON (MT) retired in 2001 after 27 years with Xerox Corp.

55 HENRY D. STUBING (CE) is an independent consultant for civil engineering lawsuits, providing reports, analysis, and expert testimony.

56 FRANK MORENO (ME) lives in Fort Lauderdale, Fla., and travels several times a year. FRANK P. PRESTI (ME) volunteers for the Florida Center for the Blind and AARP Tax Services. He enjoys golf and bowling. EDMUND STRIEBEL '62 (ME) lives in South Windsor, Conn., and enjoys woodworking, golfing and his grandchildren.

57 HENRY BERGER '59 (PH) '67 (EIE) is an emeritus researcher at the U.S. Army Corps of Engineers' Engineer Research and Development Center. He was recently awarded a patent and has two additional patents pending. ROBERT BREUER (CE) works part time on transportation-planning studies. RICHARD H. CASSIN (ME) works at Wentworth by the Sea Hotel in Newcastle, N.H., and recently became a grandfather for the fifth time. RALPH W. MOLLERICK (ME) enjoys traveling, spending time with his grandchildren and building furniture. He retired after a 44-year career at the Goddard Space Flight Center.

58 PATRICK V. BONSIGNORE (Chem) is principal of Bonsek Consultants in the field of biodegradable and fire-retardant plastics and polymers. JOSEPH G. LOMBARDINO (ChE) enjoys traveling, his grandchildren and New York City. He retired after a 41-year career at Pfizer Inc.

59 DAVID R. KASSOY (AE) is a professor of mechanical engineering at the University of Colorado, where his research addresses the characteristics of detonations in pulsed detonation engines, an advanced propulsion concept in the developmental stage. MICHAEL A. MAZAIAK (AE) retired from Science Applications International Corp. and now consults for start-up companies and volunteers at the Ruben H. Fleet Science Center in San Diego.

60 MICHAEL Z. BARRON (ME) is retired and divides his time between upstate New York and Florida. GREGORY G. CHARLTON '67 (EE) retired after 36 years with ITT Gilfillan in Van Nuys, Calif. SIDNEY PERKOWITZ (PH) is a professor of physics at Emory University; his third book, Digital People: From Bionic Humans to Androids, was published in April. THOMAS SCARPATI (AE) is running as the incumbent candidate for first selectman in Madison, Conn. He retired in 1996 as the founding president and CEO of Dow-UT, a subdivision of United Technologies.

61 MARTIN EDELMAN (MA) is the executive director of the Soldier's Sailor's Marine's and Airman's Club in midtown Manhattan; he invites all ROTC alumni to visit. JANETT TRUBATCH (MA) is the vice provost for graduate studies, research and outreach at the University of Rhode Island.

62 HOWARD S. LEVINE (AE) '65 '68 (AM) was named a Fellow of the American Society of Mechanical Engineers. He is principal of Weidinger Associates Inc. in San Jose, Calif. ROBERT C.M. LI '68 (EL) is president of Daub I/O China, a device-programming company headquartered in Redmond, Wash. FRANCES D. SMYTH (MA) is a senior technical specialist for Advantageware. ALFRED WIRTH (MT) is a docent at the Cazde of Aviation Museum in Garden City, N.Y.

63 Alumni who haven't sent their RSVP for the 40th anniversary reunion on June 3 should contact the Office of Alumni Relations at 718/260-3885 or alumni@poly.edu. PRESTON AUGENBAUM (ME) is president of System Integration Consultants and lives in Boca Raton, Fla. DENNIS CHAMOT '64 (Chem) was elected for a three-year term to the board of directors of the American Chemical Society. PAUL A. MURAD (ME) '68 (AA) chaired the First International High Frequency Gravity Wave Conference, presented a paper on interdimensional space travel at a joint propulsion conference, and will chair the Future Propulsion Conference at STAIR for the University of New Mexico. He has also published a science-fiction novel, The Demon's Gate, and a spy thriller, A Magnificent Odyssey. LARRY ROSENBERG (EE) is vice president for engineering at the VSI Alliance, a semiconductor industry technical alliance. RICHARD E. SORENSEN (EE) is a founding member of the board of the Global Foundation for Management Education. He is dean of Virginia Tech's Pamplin College of Business.

64 GITANO J. BARBA (ME) lives in Sun City Center, Fla. PAUL BIRMAN (EE) runs ARC Lab Consultants and is a member of the Peconic Amateur Radio Club, and the Electrcheon-VHF Club. He, and his wife of 36 years, Rosemarie, enjoy power boating on Peconic Bay and Long Island Sound. MICHAEL D. INGALLINERA (ME) received a U.S. patent for the utilization of pyrometer data to detect turbine blade oxidation. He is retired from GE's Power Systems.

65 RALPH LEVINE (EE) '70 (MG) is director of the National Nuclear Security Administration's quality and surveillance division. VINCENT N. MARTELLA (ME) and his wife, Jean, recently celebrated their 40th anniversary and visited New York for his 50th high
school reunion. STEVEN J. WALLACH (EE) was elected a Fellow of IEEE. ARTHUR S. WERNER '67 (ChE) is senior principal engineer at PES/MACTEC in North Carolina.

67 DANIEL E. JOHNSON (EE) celebrates 34 years as an engineer at Hewlett-Packard in San Diego. JOSEPH C. SALAMONE (Chem) received an ACS Award in Industrial Chemistry from the American Chemical Society for his research developing biomaterial products for ophthalmology and skin-care treatment. He is vice president of research at Bausch & Lomb in Rochester, N.Y., and professor emeritus at the University of Massachusetts at Lowell.

68 VIRAJ SAHNI (EE) '72 (PH) wrote the textbook Quasial Densiy Functional Theory. He is a professor of physics at Brooklyn College. WALTER S. ZAHN (EE) has been designing and building rail-car scale models and an outside G-scale garden railroad.

70 MARTIN L. GREEN (MM) '72 (MT) is group leader for electronic materials at the National Institute of Standards and Technology in Gaithersburg, Md. KAZIMIERZ (KAI) SIWIÓK '72 (EE) wrote the textbook Ultra-wideband Radio Technology with co-author Debra McKeown. He is founder of TimeDerivative Inc.

71 ELIOT ABOLAFIA (AE) is a patent counsel for the U.S. Navy in Orlando, Fla. He and his wife, Donna, have three children, Paul, Dustin, and Emily. PAUL J. MIRABELLA (AE) is president and CEO of global diagnostics imaging for GE Healthcare. RICHARD T. SCHWEIZER (MA) '78 (MG) is project manager at Citigroup's Risk Architecture Department. ANTHONY S. SEIDITA (SE) is the principal systems engineer with the intelligence systems and surveillance division of Lockheed Martin. He received the division's Incentive Award in 2003.

72 DONALD R. DEMARIA (MA) received his instrument rating and commercial pilot certificate and is working on his certified flight instructor rating. ANTHONY DEVITO (SS) is vice president of Chemical Specifics Inc. JOSEPH M. ENGLOT (CE) is the assistant chief engineer of design for the Port Authority of New York and New Jersey. MICHAEL M. KITT (Chem) is senior vice president of development at Theravance Inc, a biotechnology company. ANDREW SCHECHTER (CE) '74 (ChE) is a vice president at URS Corp. in Boca Raton, Fla. He and his wife, Lana, have two daughters, Allison and Michele.

74 Alumni who haven't sent their RSVP for the 30th anniversary reunion on June 3 should contact the Office of Alumni Relations at 718/260-3885 or alumni@poly.edu. ROBERT P. MANTHEY (ChE) is a market research manager for the American Institute of Certified Public Accountants. ASHOK RAMSARAN '77 (EE) was honored by the New York City Council for his efforts on behalf of immigrants. He is the secretary general of the Group of 70, which manufactures intercoms for healthcare and transportation systems.

75 STEFAN M. LOZYNIAK (CE) is an estimator/expeditor and enjoys gardening and traveling. GREGORY OSCHE (PH) retired as a Raytheon Fellow in 2003.

76 JOHN W. NAYLOR (CE) is president-elect of the New York State Society of Professional Engineers. He runs a consulting firm that provides civil, environmental and forensic services. KEVIN E. SMEDLEY (AE) is a senior program manager for Modern Technology Solutions Inc. in Alexandria, Va. He and his wife, Maureen, have three children, Ken, and Kevin.

77 STEVEN M. FREEDMAN (ChE) volunteers at the Veterans Administration Hospital in Tucson, Ariz., and is working on his second novel.

78 RICHARD G. MARSANICO (TP) is president of Traffic Systems Inc., which sells equipment for traffic management projects.

79 Alumni who haven't sent their RSVP for the Silver Jubilee Reunion Dinner on June 3 should contact the Office of Alumni Relations at 718/260-3885 or alumni@poly.edu. JEFFREY M. BIENSTOCK (EE) is a physician at PediatricCare Associates in Fair Lawn, N.J. He and his wife, Judith, have three children, Troy, Howard, and Annice. MARK PELLECHI (EN) is a safeguards inspector for the International Atomic Energy Agency in Toronto, Canada. CARL SELINGER (TP) published the book Stuff You Don't Learn in Engineering School in 2004. More information is available at www.carlselinger.com.

Craig G. Matthews '71 Named NUI Chief Exec

Craig G. Matthews '71 (MG), a Polytechnic trustee, has been appointed president and CEO of the NUI Corporation, which operates natural gas utilities and businesses involved in natural gas storage and pipeline activities. NUI Utilities' divisions include Elizabethtown Gas in New Jersey, City Gas Company of Florida and Elkton Gas in Maryland. Previously, Matthews served 36 years at KeySpan Energy, retiring in 2002 as vice chairman and COO. A Brooklyn native, Matthews holds a master's degree in industrial management from Polytechnic and a bachelor's in civil engineering from Rutgers University. He and his wife, Carol, live in Chatham, N.J., and have three children, Kenneth, Bradford and Meinda.
STEFAN F. MEYER (NE) ’85 (ME) is a partner in the New York law firm of Morgan & Finnegan. He and his wife, Joann, have three children: Nick, John, and Chris.

THOMAS P. MCNULTY JR. (EE) took his professional engineering exam 24 years after taking the EIT and is now a licensed professional engineer in New York State. WARREN WINTER (ME) is the IT manager for Kohberg & Company, responsible for Kohberg’s IT and telecom-related activities in New York and California. He also manages the IT function for Katornah Capital. He lives in Westchester, N.Y.

STEVEN COSCIA (EE) is a program manager at Raytheon’s integrated-defense-systems division in Bedford, Mass. He has two children: Christopher and Lauren.

JOHN FUSCO (EE) lives in Waukesha, Wis., with his wife of 10 years, Lisa, and three children: Andrew, Alex, and Samantha. He designs computers and software for CT scanners for GE Healthcare.

HENRY J. WHITE (MT) received the National Science Foundation’s Career Award in 2004, a prestigious grant for young faculty members. He is an assistant professor of materials science at Stony Brook University. He and his wife, Yuxie Fu, have one daughter, Hillary. STEVEN YEE (AE) works for the Missile Defense Agency in the System Executive Office. He and his wife, Linda, have a 3-year-old daughter, Hannah.

GARY A. ABLEY ’92 (EE) is a special counsel for intellectual property at Baker Botts L.L.P. He earned his JD from St. John’s University School of Law in 1995. ALEXANDRE G. NOWOSAD (EE) is a senior technologist for the National Institute for Space Research in São José dos Campos, Brazil.

MARIE CANCELLARA-RAKER (ChE) is a project engineer at TRC Ravi Associates in Millburn, N.J. She and her husband, Jon, have two sons: Colin and Daniel.

RAUL CARHUAYANO (CE) is a structural design engineer for Parsons Engineering and lives in New Jersey with his wife, Rocio, and three children: Stephanie, 7; Raul Jr., 2; and Samantha. NATARAJA POTHIREDDY (EE) is co-owner of the Ramada Inn in Hazleton, Pa., and a partner in Edge Technology Inc. in Parsippany, N.J.

FRANK A. STULIC (EE) married Elaine Appleyard in 2003 in Florida. He is a security consultant for Tribridge Inc.

Alumni who haven’t sent their RSVP for the 10th anniversary reunion on June 3 should contact the Office of Alumni Relations at 718/260-3885 or alumni@poly.edu.

WILLIAM R. HARVEY (ME) is a project manager for UOP LLC. He lives in Cary, Ill., where he is the park district commissioner and president of the Cary Soccer Association.

DAVID KWAK (ME) is an account executive for Arco Inc. and lives in Malvah, N.J. SAMUEL H. MEGERDIKAICHAN (Chem) is a patent attorney at Frommer, Lawrence and Haug LLP. He and his wife, Maureen, have a daughter, Katie.

TRUNG D. TRAN (CS) is a dentist in Oneonta, N.Y. He graduated from the University of Pennsylvania’s School of Dental Medicine.

CHINONYERE M. (CHARLES) UKEGBU (TP) is the executive director of policy for the New York City Department of Transportation.

GERALD LEMMON (ME) is a mechanical engineer for 3D/International and lives in Laurel, Md.

EDUARDO M. COPPOLA (CE) and his wife, Gloria, celebrated their 60th wedding anniversary in September. He had a 32-year career as a navy aviator and then as a resident engineer for Bechtel.

HARRIETT GIANNAKOPOULOS (CE) married Nikolas Karkanias in October. They live in Lake Hiawatha, N.J.

CONSTANDINO (GUS) SIRAKIS (CE) is a structural engineer for STV Inc.

VINCENT MACCONE (CE) married Jennifer Riedel in July.

MEDHAT (MATT) HASSAN (CE) is a senior geotechnical engineer at Noda & Associates in Florida. PAVEL VDOVETS (CS) is a senior network engineer at Adionixack Financial Marketing.

KIRK GRANT (ChE) is a computer and high-technology analyst for Accenture. He and his wife, Careta, live in Sayreville, N.J.

BRIAN G. DOUGLAS (EE) is a circuit-design engineer for Lockheed Martin and lives in San Jose, Calif., with his wife, Stacy.

NAMUL HASSAN (BE) is a consumer safety officer for the U.S. Food and Drug Administration. He lives in Queens. VICTOR L. SMITH JR. (MG) is director of CIB World Markets. He and his wife, Migdalia, live in Brooklyn.

Three Alums Elected to NAE

Congratulations to the three Poly alumni recently elected to the National Academy of Engineering:

Dr. Richard Gambino ’76 (ChE), professor of materials science engineering at Stony Brook University, was recognized "for the discovery of magnetic anisotropy, the enabling technology of magneto-optical recording."

Dr. William A. Kuperman ’65 (PH), director of the Marine Physical Laboratory and professor in the Scripps Institution of Oceanography at the University of California at San Diego, was recognized "for international leadership in the development and application of computational methods for ocean acoustics."

Dr. John H. Perchekho ’67 ’69 (MT), professor of materials science and engineering physics at the University of Wisconsin at Madison, was recognized "for innovations in solidification processing to obtain useful microstructurized, nanostructured and amorphous materials."

Top: Dr. Richard Gambino ’76 Bottom: Dr. William A. Kuperman ’65
IN MEMORIAM: Fred Leonard '45 '47

Dr. Fred Leonard '45 (Chem) '47 (PM), an educator, physical chemist and co-discoverer of the basis for super glue, died of a heart attack October 28, 2003, in Bethesda, Md. He was 88.

Leonard’s research focused on polymer chemistry, biomedical engineering and internal and external prosthetics. At the Walter Reed Army Medical Center, where he was scientific director of its biomechanical laboratory from 1952 to 1972, Leonard developed new materials for prosthetics, including an artificial hand containing a piezoelectric crystal that allowed the hand to adjust the force of its grip. He also helped discover aliphacrynoacrylate adhesives, the basis of super glue, and held the patent for its medical and dental applications. In 1971, President Richard M. Nixon gave him the President’s Award for Distinguished Federal Civilian Service as a pioneer “in the development of advanced surgical repair materials and other techniques and devices that saved critically wounded American soldiers.” In 1972, he joined George Washington University as dean of research and professor of medicine and orthopedics; he retired in 1985.

Leonard was born Frederick Lenowitz in Brooklyn, N.Y. After graduating with a bachelor’s in chemistry from the University of Arkansas, he changed his name to Leonard to avoid anti-Semitic discrimination on the job. He worked during the day researching better materials for wire insulation, and at night taking classes at Polytechnic, which awarded him a master’s in chemistry and a doctorate in polymer chemistry. He is survived by his wife of 58 years, Mildred; two children, Dr. Warren J. Leonard and Dr. Andrea Leonard-Segal; and six grandchildren.

Annual Meeting of Polytechnic Alumni

Thursday, June 3, 2004
Dibner Auditorium • 5 MetroTech Center • Brooklyn, NY

All alumni are invited to attend the annual business meeting of the Polytechnic Alumni, including the election of officers and presentation of the Distinguished Alumnus Award.

Alumni Reception
5:30 p.m.

Annual Meeting
6:30 p.m.

7:30 p.m.
Dinner and Reunion
Honoring the classes of ’64, ’74, ’79 and ’94
Dinner hosted by the Big Apple Section

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

Experience Ireland September 2-11.
Cost is $2,499 per person and includes airfare, super/first class accommodations for two nights in Kilkenny and Dublin, breakfast daily, some additional meals and private coach transportation with guide. (Optional extension in Dublin available at tour’s end.) Among the sights will be King John’s Castle, Cahir Castle, the Rock of Cashel, Trinity College, Powerscourt Gardens and a performance at the Abbey Theatre.

Thanksgiving in London November 24-29. Cost is $899 per person and includes airfare, transfers, accommodations and breakfast daily. Donald Ivanoff, director of alumni relations, will be the tour escort, sharing his knowledge of this exciting city.

Both trips are subject to a minimum of 15 participants and a maximum of 30. To reserve a spot or receive more information, contact Donald Ivanoff at 718/260-3885 or alumni@poly.edu.