Long Island Graduate Center Is Moving in Bold Directions
New Home, Director and Expanded Programs

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New Campus, Director and Expanded Programs for Long Island Graduate Center

Polytechnic's Long Island Graduate Center has expanded its curriculum and moved to a new state-of-the-art, fully wired campus in the Melville Corporate Center at 105 Maxxess Road near the Huntington Quadrangle. The center will serve as an important resource for Long Island's engineering community.

In addition, Dr. Frank A. Cassara has been named director of the center and academic director for electrical and computer engineering programs. "Our new graduate campus is emblematic of Polytechnic's dedication to our mission and the needs of Long Island," Cassara says.

The University has also appointed a corporate Advisory Council of noted Long Island business leaders. Chaired by James M. Smith '71, president and CEO of the Long Island-based Edo Corporation, the council advises the University on the continuing education needs of Long Island industry.

"From my own personal experience and that of my company," Smith says, "it is clear the high quality of our professional staff has made us successful. That, in no small measure, is due to the outstanding graduate education made available to us by Polytechnic University."

The University's graduate programs on Long Island have set a standard for excellence in engineering, management and computer science since 1961. Polytechnic's new campus and expanded programs reaffirm the University's commitment to educating the next generation of Long Island's business leaders.

"Our mission is to help Long Island industry grow by producing skilled graduates needed by Long Island companies and by providing continuing education programs for members of the workforce," says Dr. Ivan T. Frisch, Polytechnic's executive vice president and provost. "We will do everything possible to maintain unity of direction between us and Long Island industry."

Students at the Long Island Graduate Center can choose to pursue a master's program, take a 15-credit graduate certificate program or enroll in selected courses. The programs include management, computer science, wireless innovation, systems engineering, electrical engineering and telecommunications networks.

"Our new graduate campus is emblematic of Polytechnic's dedication to our mission and the needs of Long Island."

—Dr. Frank A. Cassara

All courses are taught by a distinguished full-time faculty and accomplished business leaders. Classes are offered in the evenings Monday through Thursday and during the day on Saturday.

For more information, contact Cassara at cassara@rama.poly.edu, at 631/755-4300, or go to www.poly.edu/news/brochure.html.

IN BRIEF

Polytechnic Ranked Among Top 20 Schools Graduating Black Engineers

A survey by the National Action Council for Minorities in Engineering ranked Polytechnic nationally among the top 20 schools graduating black engineers. The survey was "Keeping Score: Comparative Performance of Engineering Institutions in Creating Access, 1997-98."

Poly to Run Major Engineering Conference

The United Engineering Foundation (UEF) has selected Polytechnic to assume responsibility for the prestigious UEF Engineering Conferences Program, beginning 2003. Polytechnic is working with the nonprofit agency Engineering Conference Foundation to design the format and content of future conferences. The program, under Poly, will be renamed Engineering Conference International. UEF has run its conferences program for the past 40 years with more than 850 conferences worldwide and 65,000 participants.

New Degree in Construction Management Offered

Polytechnic will offer a BS in Construction Management beginning September 2002. Administered by the Department of Civil Engineering's Center for Construction Management Technology, the program will give students a background in computer applications, including database structures related to three-dimensional computer models, procurement, scheduling and the costing of construction operations. In addition, the program will provide a foundation in management and economics and will offer on-the-job work experience and case-study projects, through internships, summer jobs and part-time employment in cooperation with the Construction Management Association of America, the New York Building Congress and Professional Women in Construction. The University currently offers MS and PhD degrees in Construction Engineering (for engineers) and Construction Management (for non-engineers).

Center Awarded Three Grants

The Center for Construction Management Technology has been awarded three grants, totaling more than $400,000. The first, from the National Science Foundation, is a joint, $289,467 award with Poly's Urban Utility Center to model the water distribution system of New York City and develop a scientific model to predict water-main breaks. Civil Engineering Professors Symeon Christodoulou, Ian Juran and Civil Engineering Department Head Fletcher H. continued on page 3
New York Movers and Shakers Meet Poly President Chang

Polytechnic President David C. Chang has been a busy man about town lately. From clockwise, he attended a reception for U.S. Senator Hillary Rodham Clinton; met with New York City Mayor Mike Bloomberg, on whose transition committee he served; and gave new Brooklyn Borough President Marty Markowitz a tour of the University’s MetroTech campus.

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(Bud) Griffis are the principal investigators.

The second grant, $43,139 from the New York City Transit Authority, is to study how to apply cutting-edge technology to the construction of a Myrtle–Wyckoff Avenue subway station in Brooklyn. The study will also train transit employees in this technology, and may be extended to include more projects across the city. Christodoulou is the principal investigator.

The third grant is for a $72,595 study for the New York Association of Consulting Engineering. The center recently completed the first stage of this study of how city agencies procure the services of architects and engineers and how qualifications-based selection can offer significant advantages over low-bidding selections. Christodoulou and Griffis are the principal investigators.

New Ball Fields for Polytechnic Sports

In a major expansion of its intercollegiate sports programs, Poly will build a baseball, softball and two soccer fields at Floyd Bennett Field, part of the Gateway Recreation Center on the Brooklyn/Queens border. The new fields will open in September 2002 and will also be available for public use through a permit system much like the one used by the New York City Parks Department. Permit fees will go towards the maintenance of the fields. In addition, Poly is developing educational programs for young students in the communities surrounding the Gateway area.

Poly is an NCAA Division III school and sponsors men’s and women’s judo, tennis, basketball, volleyball, cross country, track and field, women’s softball and men’s soccer and baseball. The University recently hired more coaches and expanded its varsity sports to include women’s tennis, softball, basketball, cross-country and track and field teams.

Biotech Round Table Held in Israel

A Polytechnic round table at the Weizmann Institute in Rehovot, Israel, focused on the challenges facing companies in the emerging Israeli biotechnology industry. Held January 9, the event was the second annual round table in Israel hosted by Poly’s Institute for Technology and Enterprise (ITE), the Department of Management’s MS in Management Program in Israel and the POLYTECHNIC ALUMNI in Israel. Speakers included Dr. Nina Ziv, academic director of ITE; Lior Ma’ayan, executive vice president of Compugen; Gal Ehrlich of Ehrlich and Partners, a leading patent firm in Israel; Martin Becker, CEO of XTL Biopharmaceuticals Ltd.; and Poly Management Professors Harold G. Kaufman and Yair Berson.
Major Initiatives Created to Support Polytechnic and its Students

Polytechnic invites alumni and friends to be a part of the University’s future and support its students through the following fund-raising initiatives:

9/11 Memorial Scholarship Fund

In the aftermath of the terrorist attacks of September 11, 2001, Polytechnic committed an initial $1-million to create the 9/11 Memorial Scholarship Fund to honor those who died tragically that day. The fund, over five years, will provide 10 full four-year scholarships to the University for dependents of victims of the attacks. To give to this scholarship fund, contact Thomas Daly, director of development, at 800/366-7659, 718/260-3364 or tdaly@poly.edu.

Name a Room in the New Residence Hall

Alumni chapters, classes, fraternities and individuals may invest in naming rooms in the new 400-bed Donald F. and Mildred Topp Othmer Residence Hall. Donors may give $50,000 to name a four-person suite or $50,000 to name a student lounge. With their gift, donors receive the use of a suite at cost for one week each semester, for themselves or to accommodate high school students or students from other colleges enrolled in summer programs. To name a room, contact Colleen Jansen, director of major gifts, at 800/366-7659, 718/260-3129 or cjansen@poly.edu.

Contributing to Polytechnic Fund Helps Boost University Rankings

Each year the Polytechnic Fund supports:

- Financial Aid and Scholarships
- Library Resources and Information Technology
- Research Opportunities
- All Academic Departments
- Academic and Instructional Support
- Student Services and Activities
- Laboratory Equipment and Support
- Facility and Equipment Maintenance
- Career Services

Alumni support is vital for the excellent education Polytechnic students receive. The percent of alumni participation in the Polytechnic Fund is a factor in the annual U.S. News & World Report rankings. To be counted among Poly’s supporters, your gift should be received by June 30, 2002.

For information about making a gift to the Polytechnic Fund, contact Kristen Anderson at 718/260-3634 or kanderson@poly.edu.

Pledging Academic Excellence

Polytechnic PROMISE scholars pledged their commitment to academic excellence in a candle-lighting ceremony January 31 on the MetroTech campus. During the ceremony, held in the Dibner Auditorium, 88 scholars pledged to maintain high academic standards and to mentor future PROMISE scholars. The scholarship program is funded by the 14-year-old PROMISE FUND, which also supports the University’s community outreach effort, the Center for Youth in Engineering and Science (YES). The competition drew over 100 seventh- and eight-grade students from the New York metro area.

The Future City Competition is an academic and technology design event that introduces students to environmental issues. Working with mentor-engineers and teachers-coaches, student teams write an essay and build a three-dimensional model of their vision of “The City of the Future.” Each team defends its vision before a panel of engineers and University professors to compete for prizes and scholarships.

The competition is sponsored by Polytechnic and the American Society of Civil Engineers and was held January 26 at the MetroTech campus.

“Polytechnic is proud of the partnership we have forged with the American Society of Civil Engineers to again offer the Future City Competition,” says Dr. Noel N. Kritcher, executive director of Poly’s David Packard Center for Technology and Educational Alliances. “This competition encourages students to develop a love of learning and to think about their environment in uniquely creative ways.”

Polytechnic awards a $5,000 annual scholarship to any member of the winning team who enrolls at the University. Annual $2,000 and $1,000 scholarships are awarded to the second- and third-place teams. In addition, the winning team earns a trip to Washington, D.C., to compete in the national finals.

Students from Valley Middle School in Oakland, N.J., won top prize in the regional Future City Competition held at Polytechnic University. From left, Jennifer Lach, Cassandra Ondich and Annie Schettinikova with their vision of “The City of the Future.”
SPOTLIGHT ON: MECHANICAL, AEROSPACE AND MANUFACTURING ENGINEERING

Assistant Professor Meihua Tai is designing and building what she calls an intelligent autonomous mobile robot that can reconfigure itself in an environment under stress, such as a battlefield or a collapsed structure. Such a robot could function as a rescue-and-recovery machine. Tai's colleague, Xiaodong Wang, also an assistant professor, is developing new methods to optimize the design of artificial heart devices, including flexible blood pumps to replace a defective heart ventricle.

The work of Tai and Wang reflect the new face of the Department of Mechanical, Aerospace, and Manufacturing Engineering.

"Our faculty is bringing fresh ideas to the discipline," says Dr. Said Nourbakhsh, who celebrates his 20th anniversary at Polytechnic in September and who became department head in 2000. "This is a critical period as the University uses the money raised from the recent Campaign for Polytechnic to exploit exceptional education and research opportunities. This is indeed a time when a faculty member can make a difference."

Nourbakhsh's department has evolved at Polytechnic over the past century as the needs of the New York region and the nation have grown. The mechanical engineering department was created in 1899. In later PhD degrees in Mechanical Engineering; MS degrees in Materials Science, Industrial Engineering and Manufacturing Engineering; and advanced certificates in industrial and manufacturing engineering. Concentrations are given in thermal fluids, materials science, aerospace engineering, mechanical analysis and design, and systems, controls and robotics.

The department's faculty is fairly young and active in research. Tai joined Poly last year after earning her doctorate at the University of California at Berkeley. Wang came in 1999, shortly after graduating from MIT and teaching at the Institute of Paper Science and Technology in Atlanta.

In another recent project at Poly, Wang solved a structural problem in army shelters. DHS Systems Inc.—whose CEO A. Jon Prusnak, earned an MS in Manufacturing Engineering from Poly in 2001—recruited Wang to improve its product, a deployable rapid-assemble shelter, used by the U.S. Armed Forces, which sometimes collapsed when covered with large amounts of snow. Wang and his team of students modified the shelter's composite orthotropic skin to make it stronger and lighter.

"Three 'seasoned' mechanical engineering professors are also at the forefront of important research: Assistant Professor Vikram Kapila, Associate Professor Sanil Kumar and Associate Professor M. Volkan Otuğen.

"This is a critical period as the University uses the money raised from the recent Campaign for Polytechnic to exploit exceptional education and research opportunities. This is indeed a time when a faculty member can make a difference."

—Dr. Said Nourbakhsh

years, the department established several programs, which were then spun off on their own, including metallurgy, aerodynamics, manufacturing, bioengineering, materials science, applied mechanics, nuclear engineering, ocean engineering, operations research, air pollution control and industrial engineering. In 1995, all programs were consolidated into one department.

Today, the department offers BS, MS and Kapila, who joined the University in 1996, has been working with government agencies to help control the movement of orbiting spacecraft (see page 8 for more information on Kapila's research).

Kumar has been with Poly since 1990 and served as department head from 1998 to 2000. He is studying the transport of energy through radiation. His current research, funded by Sandia National Laboratories, measures fluid rotation near solid surfaces and detect aerodynamic turbulence. The sensor will be used to help reduce drag on aircrafts and make air travel more economical.

In another project, sponsored by NASA, Otuğen and his team at Poly are exploring a novel way to reduce noise pollution near airports by creating a sound barrier using plasma, which is generated by passing electrical current through air.
Letters to the Editor

The fall 2001 issue of Cable touched my heart. It carried the details of the six
who lost their lives and the 11 who were eyewitnesses [in the World Trade Center
attacks]. As I was a witness to this great tragedy, watching CNN at the very time it
was happening, I almost feel as if I were there
and therefore share the grief of those who
lost their lives and feel the joy of those who
were fortunate to be saved.

Raman M. Patel '49
Mumbai, India

On behalf of the University of Puerto
Rico at Mayaguez and in my own
name, I would like to express to you and
Polytechnic University our appreciation for
 sending us Cable, fall 2001.

We are sorry that six of your alumni have
perished in the tragedy of September 11 in
the World Trade Center. It's praiseworthy to
dedicate the first pages of this publication in
their honor. Also, it is commendable to honor
the students, faculty and alumni who gave
their lives in service during our nation's wars.

Pablo Rodríguez
Acting Chancellor
University of Puerto Rico

Editor's Note: To date, we have learned
that Polytechnic lost 10 alumni, students
and faculty in the 9/11 attacks.

Cable encourages alumni and friends to submit letters, which may be edited
or shortened to accommodate space and other requirements.

SOROS NAMED TO ALUMNI HALL OF DISTINCTION
Trustee Paul Soros '50 has been named to the Alumni
Hall of Distinction by New York’s Commission on Indepen-
dent Colleges and Universities (CICU). Soros, founder and
former president of Soros Associates, an international
ingineering firm, was cited for his contributions to the
engineering industry and his commitment to the arts and
education in New York. The Alumni Hall of Distinction was
created by the CICU to honor noteworthy individuals who
graduated from one of the more than 100 private colleges
and universities in New York State.
Jerry Sudarsky: International Entrepreneur

Looking back on a life rich in drama and professional success, Jerry Sudarsky '42 H'76 recalls the impact Poly and Dr. Paul Bruins, a professor of chemical engineering, had on his career. "Professor Bruins taught me a very valuable lesson that has stayed with me my entire life," Sudarsky says. "Persistence is the key to success."

The lessons learned at Poly would carry Sudarsky, founder and chairman of the board of Alexandria Real Estate Equities Inc. and a Polytechnic advisory trustee, to national and international business success.

Sudarsky was born near Moscow during the Russian Revolution while his mother and father, who owned a hairbrush factory in Chicago, were on a business trip. "This was in the days before nylon," Sudarsky explains. "Hog's hair was the bristle of choice and Russia produced this commodity."

When he was about a year old, the family was able to escape to Berlin in 1920, where his father, who had other European business interests, set up his headquarters.

Returning to the United States in 1927, the family settled in the Flatbush section of Brooklyn. "These were tough times financially," Sudarsky says. "The consequent Depression just about ruined my father."

Gifted with a strong pitching arm, Sudarsky played baseball while at DeWitt Clinton High School and won a scholarship to the University of Iowa. "I pitched for Iowa and played semi-pro ball during summers to supplement my income," he recalls, "but after a tryout with a major league team, it became obvious that I would be better off getting a regular job."

Financially strapped, Sudarsky left Iowa before earning his undergraduate degree and returned to Brooklyn and a job at the Atlantic Yeast Company as a chemist. In 1940, attracted by Poly's reputation in chemical engineering, he enrolled in the night program where he took a class taught by a young PhD student and teaching assistant named Joseph J. Jacobs '37 '39 '42 H'86. Sudarsky and Jacobs, the founder of Jacobs Engineering Group Inc., a Polytechnic lifetime trustee and the University's greatest living benefactor, became very close friends and remain so to this day.

Sudarsky graduated with a bachelor's in chemical engineering and then enlisted in the Navy, serving mostly in the South Pacific as a radar specialist. Discharged on the West Coast, Sudarsky decided to stay in California, where he saw an opportunity to start his own business.

Early Business Success

With $30,000 in seed money from investors, he founded a fermentation company that initially developed feed supplements for cattle and poultry. Over the next two decades, the company, Bioferm Corporation, focused on biotechnology and became one of the world's largest producers of both vitamin B12 and monosodium glutamate, and developed the first commercial microbial insecticide. The plant in Wasco, Calif., is still operating under different ownership and producing microbial insecticides.

Sudarsky sold the multi-million dollar business in 1960 and set an ambitious goal for himself: "I wanted to help underdeveloped countries grow their industry." He joined the United Nations Industrial Development Organization and was eventually posted to Israel.

"I drafted a proposal to basically consolidate Israel's existing chemical companies into one major company," he remembers.

The proposal landed on the desk of Prime Minister Levi Eshkol, who called Sudarsky to his office. "You talk a good game, son," Eshkol told him. "Now go ahead and do it, and I'll give you a dollar a year.

Sudarsky went on to form Israel Chemicals Ltd., one of the largest exporters of products from Israel. While living in Israel, he met many of the nation's leaders, including David Ben-Gurion, founder of the State of Israel and Golda Meir, the country's former Prime Minister.

Returning home, Sudarsky served as a director and vice chairman of the Daylin Company, a discount mass-merchandise chain, and eventually joined the Jacobs Engineering Group as vice chairman of the board of directors.

After retiring in 1994, he came up with an idea to build laboratory space for biotechnology and pharmaceutical companies. Today, he is chairman of Alexandria Real Estate Equities Inc., a Real Estate Investment Trust (REIT), listed on the New York Stock Exchange, which owns, operates and manages over 5 million square feet of this specialized real estate in various parts of the country.

"I've had an interesting career and got to travel the world," Sudarsky, 83, says. "But it was the lessons learned at Poly that prepared me for the adventure."
Actually, It is Rocket Science

On a spring day in 1998, a satellite orbiting 22,000 miles above Kansas inexplicably failed and rotated out of position. The malfunction completely disrupted communications on Earth, leaving 45 million people without paging service, affecting television and radio broadcasts and preventing credit card transactions. Today, the satellite, which cost $250 million, is still orbiting but no longer communicates to its target, its control system beyond repair.

That disaster could have been prevented, says Dr. Vikram Kapila, assistant professor of mechanical engineering, if there had been several smaller satellites working in tandem. If one satellite fails, it could be replaced quickly and cheaply without bringing down the whole system.

"Why make an expensive, multifunctional spacecraft," he asks, "when you can make a small, single-purpose spacecraft in large numbers and for less money?"

Kapila, an expert in robotics and control theory, is researching the validity of that question with a grant from NASA and cooperation from the Air Force Research Laboratory at Wright Patterson Air Force Base in Dayton, Ohio. His theory is to launch a collective of small satellites into space that perform individual functions to accomplish group goals. Each satellite, containing an "intelligent" chip, could execute assignments, position itself and point at an intended target as well as be flexible when called upon for other tasks or to change positions.

"For these satellites to direct themselves," Kapila explains, "you must program them to react intelligently to different scenarios and make decisions as a group. On the outside, this may seem to require satellites to be intuitive, but it is really the ability to use mathematical calculations to optimize the maneuvers of satellites."

In the future, Kapila sees using such chips on the ground to enhance modes of transportation, such as in taxicabs or long-distance trucks. Autopilots for trucks or taxis, perhaps?

Dr. Vikram Kapila oversees graduate student Hong Wong '01 working on a five degree of freedom robotic manipulator. With funding from NASA, Kapila aims to manipulate spacecrafts in orbit.

Dr. George Bugliarello, university chancellor, has been designated a lifetime national associate of the National Academies, "in recognition of [his] extraordinary service to the National Academy of Engineering, National Academy of Sciences and National Research Council."

Dr. H. Jonathan Chao, professor of electrical and computer engineering, is the lead author of two books based on material he teaches at Polytechnic: Broadband Packet Switching Technologies: A Practical Guide to ATM Switches and IP; Reuters, written with Drs. Cheuk H. Lam and Eiji Oki (September 2001, John Wiley & Sons), and Quality of Service Control in High-Speed Networks, written with Dr. Xiaohui Guo (November 2001, John Wiley & Sons).

Dr. Onur Guleryuz, research assistant professor of electrical and computer engineering, received a National Science Foundation CAREER Award for his research on "Models and Representations for Digital Images and Video."

Dr. Farshad Khorrani, professor of electrical and computer engineering, received a U.S. patent (with Dr. Jahanmir Rastegar) for "Apparatus for Reducing Vibration Inputs to a Device and/or for Micropositioning."

Dr. Spencer P. Kuo, professor of electrical and computer engineering, Lester Orlick, civil engineering technician and Dr. Edward Koretzky '94 '95 '99 received a U.S. patent for "Methods and Apparatus for Generating a Plasma Torch."


Dr. Iwao Terazawa, associate professor of polymer chemistry, published Polymer Solutions: An Introduction to Physical Properties (February 2002, John Wiley & Sons).

Dr. Nancy M. Tooney, associate dean of engineering and applied science, was inducted as a fellow of the Association for Women in Science.

Dr. Yao Wang, professor of electrical and computer engineering, published Video Processing and Communications with co-authors Drs. Jörn Ostermann and Ya-Qin Zhang (September 2001, Prentice Hall).
ALUMNI PRESIDENT'S CORNER

One critical initiative of the POLYTECHNIC ALUMNI over the past two years has been to establish a link between alumni and students, who are our future alumni. This process begins even before students start their first class and continues through their years at Poly. New Student Orientation is now a tradition at Poly, where freshmen attend an event before classes start and meet each other, Poly employees and alumni. This year, the student orientation coincided with the celebration of the conclusion of Campaign for Polytechnic—Fulfilling the American Dream. Both were successful and the students began their Poly experience in positive spirits.

Our goal is still incomplete. We need you, our alumni, to help undergraduates find sure footing at Polytechnic and in their chosen careers. We ask you to be mentors, a networking resource and a resource that our young alumni and students can tap. We want new and future alumni to continue to feel part of the Poly family.

The days of lifetime jobs are gone. That means we have to learn to manage our own careers. In the past, large companies provided education programs for their employees to grow professionally. This process created better employees and new opportunities for them. Now, most of us work in smaller companies and we have to advance our professional skills on our own time. I don't want to tell you how to do that—you all know how. But what I would like to mention is another kind of training that deserves attention and that is your ability to train your colleagues by sharing your technical knowledge. Be a mentor. Be a teacher. Develop your teaching and presentation skills. These traits will make you stand out in meetings with your peers and management.

I am sure that many of you watched the 2002 Winter Olympics at Salt Lake City. It was great entertainment, but what caught my eye was one of the messages that applies to all of us and that I would like to share with you: "Light the fire within."

Robert M. Kettles: Moving Fast at Aprisma

Robert M. Kettles ’96 wears two hats at Aprisma Management Technologies, a three-year old company that helps corporations manage their information technology infrastructures. As a presales engineer for the Northeast region, Kettles, 28, works with a sales team to sell Aprisma’s software by tailoring the product to a client’s needs. He is also an engineering manager, overseeing and mentoring other presales engineers.

“It’s never a dull moment,” says Kettles, who joined Aprisma’s former parent company Cabletron Systems in 1996. “I’m constantly meeting different people and facing different situations. I have to be quick on my feet—sometimes literally as I’m often chasing after planes and trains—especially computer, a TI-99/4A, at age 7. “I knew I wanted to be a computer engineer,” he says, “because it combined science, math, physics, logic, creativity and a passion for building.”

He majored in computer engineering at Poly, earning a BS in 1996. A native of Connecticut, he gave up the two-hour commute to and from his hometown after one semester and moved into Long Island University’s residence hall, which also housed Poly students. “Unfortunately,” he says, “LIU and Poly worked on different academic schedules, and there were times when LIU students were partying while Poly students were in the midst of finals or the dorm closed for LIU breaks.”

He looks forward to the opening of Poly’s first residence hall in Brooklyn in June because he believes it will encourage more people to discover the University and Brooklyn. “Many people couldn’t understand why someone from Connecticut would come to Brooklyn,” he says. “Some only see Poly as a means to get a better life and escape Brooklyn. But how can you go wrong living near Brooklyn Heights, with one of the best views of Manhattan, and Junior’s, producer of the world’s best cheesecake? A 15-minute subway ride puts you in Greenwich Village.”

Although, he’s back living in Connecticut, he maintains strong ties to his alma mater. Last year, he purchased a gold inscription on Polytchnic’s Alumni Wall. “When I was a member of Student Council,” he says, “I remember sitting at budgetary meetings and discovering the impact that an endowment has on the school. Poly has a fantastic scholarship program, from which I greatly benefited; yet it still has some outdated labs, classrooms and equipment. I want to help change that.”
Don’t Be Off the Wall!

The Alumni Wall, to be located inside the main entrance of the new Joseph J. and Violet J. Jacobs Building, will be dedicated in fall 2002. Your generosity ensures that your name will be inscribed on the wall as a reminder of your commitment to the future of Polytechnic University. Be among the first names on the wall by making your payment before June 30, 2002. Donors may reserve a gold ($3,000), silver ($2,000) or bronze ($1,000) inscription. Young alumni are eligible for inscriptions at a special cost; those who graduated in the last six to 10 years or in the last one to five years may reserve a bronze inscription at $500 or $250, respectively. Members of the President’s Associates may combine their membership with an Alumni Wall gift and receive both at a lower cost.

Contact Kristen Anderson at 718/260-3634 or kanderson@poly.edu for more information on Alumni Wall inscriptions.

More than 190 alumni and friends of Polytechnic University will have their names or the names of their loved ones inscribed in gold, silver or bronze on the Polytechnic Alumni Wall.

NEW YORK HOLIDAY FESTIVITIES
The Big Apple Section’s Holiday Dinner at the historic Gage & Tollner Restaurant in Brooklyn brought together more than two dozen alumni, including, from left, George Likourezos ’92 ’92, Nick Russo ’73, Jim Oussani ’77 and Wasyly Kinach ’83. More pictures from these and other alumni events are available at www.poly.edu/alumni.

HOUSTON ALUMNI DINNER
In January, the Houston Alumni Section hosted a dinner, during which Eugene Holzer ’52 was presented with a Polytechnic 2002 Dedicated Alumnus Award. Showing the section flag are, from left, Bob Franco ’69, Cedric Charles ’78, Joseph Giovannelli ’69, Daniel Greenberg ’73, Holzer holding his award, Matt Wanitt ’01, John Zipay ’88 and Edward Gonzalez ’96.
William K. Kramer Joins Duryea Society

William K. Kramer '52 realized the value of his engineering education two weeks after graduating from Polytechnic with a bachelor's degree in civil engineering. It was 1952, the height of the Korean War, and Kramer found himself drafted and in California waiting to be shipped out. In his final week of basic training, an officer asked for anyone with engineering skills to help fill a shortage. "Of course, I raised my hand high," Kramer recalls, "because I'd rather be an engineer here than hold a rifle in Korea." Kramer passed an examination and was sent to Sandia National Laboratories in New Mexico, where he served as a base inspection officer. Later, he became chief of preventive maintenance at the Frankfurt Arsenal in Philadelphia.

"In both jobs," says Kramer, "my Poly education was instrumental to my success. The school gave me an overall understanding of engineering principles and taught me to analyze and solve problems. I'll never forget a lesson from Professor Charles Schaffner on tension analysis. He didn't give examples or answers; he had us use a screw and thread to create tension. Then we analyzed both going from a torque into a tension. That lesson trained me to think out problems."

Since graduation, Kramer's career has been in construction. Today, he and his wife, Naomi, own and manage commercial properties in the New York area. They also share a passion for sailing and, in the late 1970s, spent four years aboard a sailboat in the Caribbean.

In 2001, Kramer joined Poly's planned-giving organization, the Duryea Society (named after the University's first planned-giving benefactor, Samuel B. Duryea, who made a gift in 1899). Kramer established an irrevocable trust, of which 10 percent will be given to the University ad infinitum. "I believe in on-going gifts rather than just a lump sum," he says. "For others in my position, I recommend giving gifts via a trust and letting Poly decide where to put the money."

Condolences to the Pearl Family

The Polytechnic Community expresses its heartfelt condolences to Judea Pearl '65 and his family upon the death of his son, Daniel Pearl, a Wall Street Journal reporter killed in Pakistan.

Dow Jones and Company has established the Daniel Pearl Memorial Trust to benefit Pearl's widow, Mariane, and their child. Contributions may be sent to: The Daniel Pearl Memorial Trust, c/o Robert J. Laughlin, vice president, J.P. Morgan Trust Co. of Delaware, 500 Stanton Christina Road, 2/CS, Newark, DE 19713. Your contribution is not tax deductible.

The Sixth Annual Polytechnic Classic Golf Tournament and Fundraiser

Sunday, May 19, 2002
at Dyker Beach Golf Course
7th Avenue and 86th Street
Brooklyn, N.Y.
Registration: 10 a.m.
Tee-off time: 11 a.m.
Cost: $135 per person

Package includes green fees, cart, sleeve of balls, bag of tees, box lunch and two-hour barbecue after tournament.

Payment due May 6, 2002. Make checks payable to: Polytechnic University Athletics. All proceeds go to Polytechnic varsity teams. The event is sponsored by the Department of Athletics and the Big Apple Section of the POLYTECHNIC ALUMNI.
Raphael Katzen Receives AICHE’s Founders Award

Dr. Raphael Katzen ‘36 (CH) ’38 (CH) ’42 (CH), has been named the 2001 recipient of the American Institute of Chemical Engineers’ (AICHE) Founders Award. The award, which recognizes outstanding contributions in chemical engineering, is presented to an AIChE member who has had an important impact on chemical engineering and whose achievements have advanced the chemical engineering profession.

Katzen is the founder of Katzen International Inc., formerly Raphael Katzen Associates International Inc. The firm assisted the government with its first lunar landing by developing a process to purify, store and transport liquid hydrogen for rocket fuel. The company is also responsible for technical innovations that made ethanol a competitive gasoline component. Katzen retired from the firm four years ago, but continues to serve as a consultant to a variety of industries. Also director of the Center for Battery Materials and Engineering at Rutgers University.

Henry Gunst (CM) lives at Roland Park Place, a retirement community near Baltimore.

Seymour Alpert (CH) wants to hear from all chemistry and chemical engineering alumni who plan to attend this year’s Golden Jubilee. His e-mail is sylai@flash.net. Michael F. Capobianco (CH) ’54 (CH) ’64 (CH) has a collection of novels, a translation of a Dante excerpt and a children’s book being considered for publication. He also won a first-prize honor for a poem.

Charles A. DeBenedittis (CE) is senior managing director for worldwide design and construction at Tishman Speyer Properties. Saul Muchnick (PE) (CE) ’54 (CE) lives and works on Long Island and recently bought a winter home in Boca Raton, Fla.

Morton Litt (CM) ’56 (CM) is researching fuel cell membrane technology as a professor of macromolecular science at Case Western Reserve University’s School of Engineering.

Paul J. Glasgow (PE) (ME) is president of Glasgow Products and past chairman of ASME’s Safety Division and Product Safety Committee. He is also past chairman of ASME’s National Nominating Committee. Donald Sackman (EE) played in the Eastern Massachusetts senior softball finals. Arthur J. Wolf (CE) and his wife, Maryann, celebrated the marriage of their son, Robert, to Maria Iaracane.

Nobert M. Bikaales (CM) ’61 (CM) received a Lifetime Achievement Award from the Center for Jewish Studies at Queens College. He spoke at the center on “Saving Children: An Overlooked Aspect of Jewish Resistance.” Kenneth R. Kenter (ME) is chairman and CEO of Levitt Industrial Textile. He and his wife, Winnie, have six grandchildren and live on Long Island.

Richard H. Cassin (ME) has five grandchildren and is taking flying lessons again. He was a convention delegate at last year’s Socialist Labor Party convention in California. George Damergis (ME) ’61 (EE) ’71 (MG) is director of Transit Equipment Interactive Elements. Gerald Flasher (PH) celebrated his 40th anniversary with his wife, Edith. They have two grandchildren and live in Manhattan. Robert D. Gallagher (EE) retired after more than 40 years as a radar engineer with the MITRE Corp., SenCom Corp., MIT Lincoln.
Laboratory and MIT Riverside Research Institute. Gennaro A. Marino PE (CE) was elected mayor of Kuizton, Pa., for a four-year term. Thomas J. Russo (CM) retired from Penn State University after nearly 38 years of teaching. Frank J. Skladany (ME) retired after 34 years with Picatinny Arsenal in New Jersey.

Hank Epstein (EE) ’66 (MG) and his wife, Lillian, live in Clearwater, Fla. He is organizing an Alpha Epsilon Pi Fraternity Reunion Cruise for May 3-6 and interested alumni can e-mail him at hunikl@juno.com for details. AEP/Beta Pi chapter graduates from 1954 to 1962 will be attending.

Raymond H. Arnold (CE) is former planning director for the Town of Yorktown, N.Y. He is composing a history of planning in the Hudson Valley (1950–2000). Alumni interested in receiving a copy can contact him at rayarnoldatym@iol.com or 914/245-7773.

Marty Sandler (PH) has started a new venture, LIT Info Management.

Charles Mann (MA) received the 2000 Mathematics and Computer Science Award from the Washington Academy of Sciences.

David Michael Cohen (CM) ’72 (CM) is president and co-founder of Guidelines Integrated Services and PharmaConsult International Inc. Both companies assist pharmaceutical companies worldwide in gaining FDA approval for products. Stan Kloba (CE) ’66 (CE) retired from ExxonMobil Research and Engineering Co. after 36 years. He has established a private consulting practice, Chartwell Consulting LLC, in Spotylvania, Va.

Charles C. Maneri (CH) ’70 (ME) retired after 37 years as a mechanical engineer with the Knolls Atomic Energy Laboratory in Niskayuna, N.Y. His son and daughter are both married and he has a 3-year-old grandson, Joseph. Arthur Miller (AE) ’67 (AA) retired from Northrop Grumman after 35 years.

Sheldon P. Gordon (MA) co-wrote the third edition of Calculus and the second edition of Multivariable Calculus, to be published by John Wiley and Sons.

Joseph E. Flaherty (AE) ’66 (AM) ’69 (AM) is dean of the School of Science at Rensselaer Polytechnic Institute.

Richard I. Lewis (EE) ’65 (EE) is program manager of flight-control system avionics at BAE SYSTEMS in Santa Monica, Calif. Eugene Norman (CH) is a technical fellow of the Boeing Company. He is chief scientist of the Boeing Radiation Effects Laboratory and is known for his work in single-event effects in avionics and space electronics.

My Favorite Poly Memory by Al Lybeck ’41 (CH)

As the 1980's closed, Polytechnic was ruffled by, of all things, a faculty fracas—a feud between Chemistry Professor Raymond Kirk and English Professor Thomas Donahue. The spark that caused it reportedly was when Kirk objected to a camera used in a chemistry lab by one of Donahue’s news-writing students, Ogden Winston Link ’37.

Whatever the origin of the barrage of verbal insults between the professors seemed endless, Kirk scored Donahue with, “[the student newspaper] The Reporter is his publicity sheet.... He operates under a dozen pseudonyms, Robo Ringrose is only one!” Donahue rioted Kirk with, “It takes a freshman 22 minutes to recover from a Kirk lecture! And so went the thrust and parry:

“Kirk: ‘Prof. Donahue was court-martialed from the Navy for hanging his wash on the halyards...’

Donahue: ‘Chemistry is a masculine form of cookery. Senator Kirk is simply a volatile cookbook...’

Thus the Kirk-Donahue feud: A strange sort of feud, somehow artificial, like two bears sparring in a carnival, each careful to see that neither is hurt. Good actors, both of them, neither with a real cause. Both loved The Reporter story [about their dispute] and happily posed for a photo, pugnastically squared off, fists clenched. I loved them both.

And both loved to see gullible lower classmen carry the awful tales from one professor to the other.”

Do you have a favorite Poly memory? Send your story to Therese E. Tillett: E-mail: tillett@poly.edu; Fax: 718/260-3084; Mail: Polytechnic University, Six MetroTech Center, Brookyn, NY 11201. Your story cannot exceed 250 words and may be edited for clarity and space. Please include your name, class year(s) and telephone number.

Judas Mansbach (MA) retired after nearly 40 years as an agent and electronics engineering specialist with the Federal Communications Commission. Carl Zweben (AM) has retired from Lockheed Martin and now consults on composite materials and electronic packaging thermal management.

Fredrick C. Grab (AE) is temporarily out of retirement as a lawyer to represent John Reiner on appeal, following Reiner's widely publicized conviction for attempted extortion against Erin Brockovich and Ed Marty of movie fame. Job Katz (SE) is director of enterprise program management for the Global Information Technology Division of International Flavors and Fragrances Inc. in Union Beach, N.J.

Anthony Dalileo retired after a 40-year career as an electronics engineer with the federal government. He now teaches at the City University of New York. Stuart N. Goodman (MG) retired in August from the U.S. Navy as a communications satellite project manager. Paul W. Liu (CP) ’73 (EL) was given the title Commander of the British Empire at a January ceremony at the British Embassy in Washington, D.C. This level of honor is second only to knighthood.

Ed Barnas (MA) ’71 (MA) becomes president of the Society for Scholarly Publishing in June. He is journals manager for the North American branch of Cambridge University Press.

Martin L. Green (MT) ’72 (MT) is president of the Materials.
KOLLIOS AWARDED
NSF'S MOST PRESTIGIOUS HONOR TO YOUNG FACULTY

Dr. George Kollios '98 (CS) '00 (CS), assistant professor of computer science at Boston University, has received a National Science Foundation (NSF) CAREER Award to support his research on "Efficient Indexing and Data Mining in Spatio-Temporal Databases." The CAREER Award is NSF's most prestigious honor for junior faculty members. Kollios' current research includes temporal and spatiotemporal indexing, index benchmarking and data mining.

84 PETER M. WATERS (PH) is a naval flight officer with the rank of Lieutenant Commander in the U.S. Navy. He recently completed a six-month deployment aboard the aircraft carrier U.S.S. Carl Vinson and conducted three months of combat operations against the Taliban in Afghanistan.

85 LISA BLAIR (ME) is a senior technical analyst with Verizon Wireless in Georgia. CONRADIUS (NEIL) O'CONNOR (AE) and his wife, Gudy, welcome their second son, Sean James, born in September.

87 ARTHUR A. REYES (AE) had an article accepted for publication in Elsevier's Journal of Simulation Practice and Theory. DALE A. SIEGEL (AS) '91 (OR) is an associate professor of mathematics at Kingsborough Community College.

89 PETER MCDONOUGH (PH) '92 (MG) is an environmental health and safety officer for Pharmaceutical Discovery Corporation in Elmsford, N.Y. HECTOR RODRIGUEZ (MG) ran the Hops Tampa Marathon in December, his 26th marathon.

90 JOHN S. CRAPARO (MG) is vice president for information systems management at Dell Computer in Austin, Tex.

92 GEORGE LIKOURZOS (EE) '92 (EE) is an attorney with Long Island-based Carter, Deluca, Farrell and Schmidt L.L.P., specializing in intellectual property law.

96 BOXING LU (MN) is an operations manager for Allway Tools Inc. He married Joan Li in August and lives in Woodridge, N.J.

97 SCOTT HOFFMAN (CE) works for Slattery-Kaminska Inc. and is pursuing graduate study at Columbia University. MARK SCHWAB (CE) works in the Structures and Design Department for the Long Island Railroad. PHILIP H. SPUBLERG (ME) and his wife, Sandra, live in Philadelphia where he is a management consultant. He recently completed a master's program in operations research at Columbia University.

98 MICHAEL LEONE (EE) married SELENA MIUZZO '00 (CI) in December in Queens.

99 MICHAEL A. CAMPBELL (MN) is a program manager for BAE SYSTEMS in Yonkers, NY.

00 MOATAZ M. HASSAN PE (CE) is a senior staff engineer at Langan Engineering and his brother, Mohamed, is a freshman at Polytechnic.

01 PRIYAM AGARWAL (TC) is a technical writer for Symbol Technologies Inc. in Holtsville, N.Y.

IN MEMORIAM

Eugene N. Gellings '32 • John J. Giba '32 •
Herbert H. Cordes '37 • William H. Freund '37 '44 • Irving Afflats '41 • William A. Hunter '41 • Lionel Lipschitz '43 '47 •
George H. Schmoller '46 • John Huppel '48 •
Samuel R. Stites '49 • Charles Lembke '52 •
John A. Amann '53 • Richard J. Bush '53 •
Joseph N. Seidman '58 • Icarus Pyros '62 '70

ROBERT B. BRUNS
1920–2001

Robert B. Bruns '42, a civil engineer and war hero, died October 3, 2001, in Trenton, NJ. He was 81.

Born in Brooklyn, Bruns grew up in Queens and on Long Island. He attended the U.S. Naval Academy in Annapolis, MD, before entering Polytechnic, where his older brother, George H. Bruns Jr. '41, was studying. He earned a bachelor's degree in civil engineering in 1942. He then joined the Navy as a lieutenant commander during World War II and served aboard the U.S.S. Marblehead and the aircraft carrier U.S.S. San Jacinto. Bruns and the crew aboard the San Jacinto spent 357 days at sea and 114 days in port, survived a Kamikaze hit and a typhoon and participated in engagements in the Asian-Pacific, European and American theaters. He was awarded a special citation for heroism, the Navy and Marine Corps Medal, the Silver Star, two Bronze Stars and Theater of War medals.

After the war, Bruns worked as a sales engineer and, later, sales manager at Permit Company. In 1966, he founded International Hydronics Inc. in Princeton, NJ. The firm, which continues today under the leadership of Bruns' son, Bruce, contracts for environmental analysis and systems design in the control and treatment of hazardous materials.

In addition to his brother and son, he is survived by two daughters, Beverly and Deborah; and two grandchildren. His wife of 57 years, Gladys, died New Year's Eve 2001.
The Promise Fund Dinner
honoring

Herbie Hancock
Academy Award Winner
& Winner of Eight Grammy Awards

Richard Bressler
Senior Executive Vice President
& Chief Financial Officer
Viacom Inc.

Tuesday, June 11, 2002
The Waldorf=Astoria
301 Park Avenue
New York City
R.S.V.P. by May 21, 2002
718/260-4016 or
E-mail: mscalio@poly.edu

On Thursday, June 13, 2002,
Polytechnic will celebrate
the dedication of the Joseph J.
and Violet J. Jacobs Building
and pay tribute to
Donald F. and Mildred Topp Othmer.

Dedication and
Ribbon-Cutting Ceremony
11 a.m. in front of
Six MetroTech Center,
Jay Street Entrance
RSVP by May 15th to:
Paula Loney
Tel.: 718/260-3475
or e-mail: plooney@poly.edu

In case of rain, the dedication
and ribbon-cutting ceremony
will take place in the gymnasium
in the new Jacobs Building.

POLYTECHNIC ALUMNI
Nominations for Officers and Directors, 2002–2003
Elections will take place at the annual meeting on
Thursday, June 6, 2002, at 6:30 p.m.
in the Driehaus/CATT Building, Room 400. All alumni are invited to attend and vote.
RSVP to Gillian Marshall at 718/260-3885 or gmarshall@poly.edu.

Officers of the POLYTECHNIC ALUMNI 2002–2003 (one-year term)
President: James J. Ousiani, Jr. '77
Executive Vice President: Thomas A. Mauro '67
Vice President: George Likourezos '92 '92
Treasurer: Luther L. White '87
Secretary: Elizabeth Crefin '98

Directors 2002–2005 (three-year term)
Edward T. Barron '56 • Norbert M. Bikes '56 '61
David L. Sobin '72 '72 • Seichi Takeuchi '69

Directors 2002–2003 (one-year term)
Kuang-Chih (Frank) Huang '71 • Philip H. Shupilberg '97

Endorsement by at least 10 alumni is required for any additional nomination
submitted to the Office of Alumni Relations.
THIS ISSUE'S POLY QUIZ

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

QUESTION: How would you determine which of the two circuits shown below is inside the black box? Only two wires are available for you to make the determination.

![Circuit Diagram]

Send your answer to Therese E. Tillett. E-mail: tillett@poly.edu; Fax: 718/260-3984; Mail: Polytechnic University, Six MetroTech Center, Brooklyn, NY 11201

This issue's question was provided by John Petroski '85.

LAST ISSUE'S POLY QUIZ

WINNER OF DRAWING FROM WINTER '02 QUIZ:
SALVATORE GIORDANO '51

More than 30 people had the correct answer of Hans Christian Oersted (or Oersted) to the question:
The Q units of magnetic field strength is named after which scientist?

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WINNER OF DRAWING FROM FALL '01 QUIZ:
RICHARD FERRARA '97 '99

More than 80 people had the correct answer of 87912 to the question:
If you substitute numerical digits (but not 0) for the following letters, ABCDE x 4 = EDCBA, what do you get?

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

Summer Alumni Institutes Offer Baseball in New York and Exploration of the City

The Office of Alumni Relations has inaugurated Summer Alumni Institutes. Participants in two programs this summer will be housed in the new Donald E. and Mildred Topp Ottmer Residence Hall at Polytechnic's MetroTech campus in downtown Brooklyn.

The Evolution of New York City: July 25-28
This four-day program will explore the past, present and future of the city that never sleeps and include "behind-the-scenes" tours of city landmarks.

Price: $350 per person double occupancy
$450 single occupancy (3 nights)

Baseball in New York: August 3-7
See four games, in four stadiums in four days!
Catch the Staten Island Yankees, Brooklyn Cyclones, New York Mets and New York Yankees at home.

Price: $550 per person double occupancy
$650 single occupancy (4 nights)

Space is limited for both programs. The cost for both programs includes housing, some meals, tours, presentations and transportation in New York City. Program details are available online at www.poly.edu/alumni. Or contact Donald Benoff, director of alumni relations, at 1-800-PON-POLY or 718/260-3985