

# cable

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## Long Island Graduate Center Is Moving in Bold Directions

*New Home, Director and  
Expanded Programs*

*The center's new home  
in Melville, N.Y.*



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

**P**olytechnic'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 Maxess 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](mailto:cassara@rama.poly.edu), at 631/755-4300, or go to [www.poly.edu/news/brochure.html](http://www.poly.edu/news/brochure.html).



Dr. Frank A. Cassara

## 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, Ilan 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 Hilary 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.



### IN BRIEF

*continued from page 2*

(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 Erlich 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 \$10,000 to name a two-person room, \$25,000 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 summer 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 kanderso@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).



PROMISE scholars commit to excellence.



Students from Valley Middle School in Oakland, N.J., won the top prize in the regional Future City Competition held at Polytechnic University. From left, Jennifer Lach, Cassandra Ondich and Annie Schetnikova with their vision of "The City of the Future."

## Valley Middle School Wins Future City Competition

Students from the Valley Middle School in Oakland, N.J., captured first place in the fifth annual regional finals of the Future City Competition held at Polytechnic. The competition drew over 100 seventh- and eighth-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 teacher-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. Kriftcher, 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.



# SPOTLIGHT ON: MECHANICAL, AEROSPACE AND MANUFACTURING ENGINEERING

**A**ssistant Professor Meihua Tai is designing and building what she calls an intelligent autonomous mobile robot that can reconfigure itself in an environment undergoing 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 in 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 Prusmack, earned an MS in Manufacturing Engineering from Poly in 2001—recruited Wang to improve its product, a deployable rapid-assembly 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 strut 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 Sunil Kumar and Associate Professor M. Volkan Ötügen.

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,



Dr. Said Nourbakhsh

focuses on gathering information from reflective or transmitted signals when lasers hit random media, such as human tissue. His goal is to find ways to use lasers instead of harmful x-rays for imaging and to create hand-held lasers that are more portable than x-ray machines.

Ötügen, a 14-year veteran of Poly and a 1998 Fulbright Fellow, received five grants in 2001, totaling almost \$700,000, from federal and private agencies. In one project, funded by the National Science Foundation and the Air Force Office of Scientific Research, he is developing a miniaturized laser sensor to

measure 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, Ötügen 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.

***"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



## RECORD NUMBER OF STUDENTS GRADUATE IN ISRAEL; TERRORIST VICTIM MOURNED

On January 10, Polytechnic held its fourth commencement in Israel for students in the Master of Science in Management (MSM) Program. The ceremony, held at the Weizmann Institute of Science in Rehovot, graduated a record 217 students and featured Limor Livnat, Israel's minister of education, as keynote speaker. Three days before commencement, students, faculty and staff on Poly's Israel-extension campus gathered for a memorial ceremony for Alona Abraham, a 2001 graduate and victim of the September 11 terrorist attacks. A memorial plaque in Abraham's honor is on permanent display on the Israel campus.



New graduate Rivka Basik, right, receives her diploma from Professor Harold G. Kaufman, director of the MSM-Israel Program, during commencement exercises. Basik is a training manager at El Op, an Israeli electro-optical firm.



At a memorial ceremony for 9/11 victim Alona Abraham '01, Professor Kaufman, left, presented a copy of Abraham's diploma to her parents, Peres and Miriam.

## Letters to the Editor

Today I went to the Poly Web site and learned that we have lost six of our own—a blow close to home. I also read President Chang's comments: "In these trying times, I congratulate all of you—students, faculty and staff—for your tremendous sense of community."

Poly really prepared me for the "real world" in more ways than one. The whole student body not only had a giant sense of community but also was a potpourri of cross-cultural learning. Before attending Poly, I had grown up in a homogenous cultural environment and a sheltered one at that. Poly exposed me to different cultures and people and made me realize that we are just people with our own languages and customs. As president of the JSU (Jewish Student Union), I interacted with other students who were as passionate about their cultures as was I. Where else could someone celebrate Greek independence and Israeli independence on the same day? Or attend an international foods festival with foods from dozens of countries?

After the tremendous tragedy of 9/11, many ethnic groups feared they would feel the repercussions of the attacks. Our leaders urged all of us to act as one nation, indivisible. For Poly people, this wasn't difficult. It is institutions like Poly that promote the cross-culturalism and tolerance that will prepare the true leaders of this century. At Poly, many of us learned with vivid detail that people are truly just that—people—and should be treated on their actions and merits, and not on their ethnicity.

Yonah Wolf '01  
White Plains, N.Y.

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 was there and therefore share the grief of those who lost their lives and feel the joy of those who were fortunate to be saved.

As an alumnus of Poly I would like to convey my condolences to the families of the six "In Memoriam." I would also like to congratulate Dr. David C. Chang and the University for establishing the memorial scholarship. It is a fitting gesture of our institution to the city it belongs.

Raman M. Patel '49  
Mumbai, India

On behalf of the University of Puerto Rico at Mayagüez 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 Rodriguez  
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 Independent Colleges and Universities (CICU). Soros, founder and former president of Soros Associates, an international engineering 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.

In 1971, Jerry Sudarsky met Israeli Prime Minister Golda Meir and Zev Sherf, minister of commerce and industry. Inset: Jerry Sudarsky today.



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, still is 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



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.

quickly and cheaply without bringing down the whole system.

"Why make an expensive, multi-functional 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?



### COVER STORY

Featured on the cover of the January issue of *Chemical Engineering News*, Dr. Eli M. Pearce '58, university research professor, was inaugurated in January as president of the American Chemical Society, the largest scientific society in the world with over 160,000 members. For the past 40 years, Pearce built an internationally recognized career in a broad range of polymer research topics. At Polytechnic, he served as head of the Department of Chemistry from 1976 to 1982, director of the Polymer Research Institute from 1981 to 1990 and dean of arts and sciences from 1982 to 1990.

## FACULTY/STAFF NEWS

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 Routers*, 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. Xiaolei 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 Khorrami, professor of electrical and computer engineering, received a U.S. patent (with Dr. Jahangir Rastegar) for "Apparatus for Reducing Vibration Inputs to a Devise 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. Athanasios Papoulis, university professor emeritus, first published *Probability,*

*Random Variables and Stochastic Processes* in 1965. The fourth edition, (December 2001, McGraw-Hill), contains new material written by Dr. S. Unnikrishna Pillai, professor of electrical and computer engineering.

Dr. Iwao Teraoka, 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).





Dick Eden '73

## 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 source 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

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."



Robert M. Kettles '96

Although, he's back living in Connecticut, he maintains strong ties to his alma mater. Last year, he purchased a gold inscription on Polytechnic'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."

**"I knew I wanted to be a computer engineer because it combined science, math, physics, logic, creativity and a passion for building."**

—Robert M. Kettles

when clients ask complex questions about our products."

Kettles became fascinated by computer technology when he received his first

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



# 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 kanderso@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.**

Martin S. Abelow  
Norman Adler  
Jeanette Albert  
Ralph C. Alexander  
Norris C. Allman  
Louis J. Alpinieri  
Francis J. Ambrosio  
Robert V. Anderson  
Bernard Appleton  
Dominick Aquino  
Francis G. Araneo  
Herbert Aschkenasy  
Henry L. Bachman  
Robert L. Beer  
Sidney Beinfest  
Mark H. Berger  
Henry L. Bertoni  
Albert W. Bicknell  
Peter M. Billy  
Willard R. Bischoff  
Michel Bitritto  
Richard D. Bogner  
Mary C. Brabson  
Joseph H. Brondo  
Vincent A. Calarco  
Anthony J. Cardinal  
George A. Carleton  
David C. Chang  
Haunn-Lin T. Chen  
Zhong X. Chen  
Philip R. Clark  
Class of 2001

Paul E. Clement  
Steve E. Colucci  
David A. Conklin  
Eduardo M. Coppola  
Charles M. Cossey  
John R. Curreri  
G. C. Dalman  
Everett R. Daly  
Charles A. De Benedittis  
Thomas C. DeCanio  
Anthony P. DeLio  
Laurent Dely  
Harkrishan S. DeWal  
Cosmo J. DiPerna  
David R. Doucette  
Gregory P. Dumas  
Eugene J. Dussich  
Allan M. Edelman  
Dick Eden  
Alan Eng  
Mark Eng  
William E. Engeler  
Millicent P. Erickson  
Walter H. Esselman  
Joseph A. Falcon  
George Fallet  
Raymond L. Feder  
William J. Ferracane  
Herman Fialkov  
Joseph G. Fitzgerald  
Peter H. Fleig  
John C. Frank

Elmer Freibergs  
Randy Frey  
Jack J. Friedman  
Ivan T. Frisch  
Glenn Froese  
Andrew Furman  
Narendra K. Garg  
Judith S. Gassner  
Richard E. Gegenwarth  
Erol Gelenbe  
Roger Gilmont  
Michael E. Golas  
Arnold Goldman  
James D. Graham  
Daniel C. Greenberg  
Jerome Grossman  
Haldun Hadimoglu  
Roy V. Harrington  
Siegfried Herzfeld  
Carl P. Hetzel  
Wilbur H. Highleyman  
Charles J. Hinkaty  
Scott Hoffman  
Lynn Jacobson  
Rodney Jean-Etienne  
Leah R. Karpen  
Larry W. Katz  
Sheldon C. Katz  
Raphael Katzen  
Michael D. Kaufman  
Thomas A. Keegan  
Joseph Kempner

Robert M. Kettles  
Lynden U. Kibler  
Thelma B. Kirk  
Allan J. Kleinman  
Louis Koenig  
John Kolchmeyer  
Richard Laster  
Charles Leing  
Dorothy Lemelson  
Leon Levy  
George Likourezos  
Evans J. Lizardos  
Joseph G. Lombardino  
James W. Losinsky  
Helen T. Lowe  
Chieh H. Lu  
Eli S. Lustgarten  
Jeffrey Lynford  
Dina Mackey  
Alfred C. Maevis  
Thomas E. Maggio  
Katrina Mahoney  
Steven Markman  
Joseph J. Marra  
Carmine Masucci  
Thomas A. Mauro  
Ewalt Maurushat  
William H. May  
Jean Mayers  
Bernard L. Meyers  
Joseph R. Miletta  
Saibalesh Mukhopadhyay

James E. Mulvaney  
Michael G. Munson  
Herbert W. Newkirk  
Louis J. Nielsen  
Theodore Nowak  
Martin J. Olsen  
Alan J. Oppenheim  
Rosa B. Oppenheim  
Frederic M. Oran  
John V. O'Toole  
James J. Oussani  
Anthony Palazzolo  
Roland O. Peterson  
Raymond L. Pickholtz  
POLYTECHNIC ALUMNI  
Aaron Rabinkoff  
Frank Radden  
Norma E. Rancken-Cossey  
Earl W. Ross  
Gerald F. Ross  
Edward J. Roth  
Merrill D. Rozier  
El Hassane H. Sabky  
Meyer Sapoff  
George J. Sausele  
John P. Schaefer  
Erwin L. Schaub  
Stanley M. Schreiner  
Robert F. Siebert  
Murray L. Singer  
Jack M. Sipsres  
Constadino P. Sirakis

David L. Sobin  
Vivian T. Stannett  
Jack E. Stearn  
Herbert H. Stein  
Harold L. Straus  
Jerry M. Sudarsky  
Won Bong Sull  
Morris Sussman  
Lawrence A. Tancredi  
Norio Tashima  
Vita C. Tauss  
Ralph Tekel  
Jose Teles de Menezes  
Clifford L. Ternes  
Richard S. Thorsen  
Frank L. Tobin  
Claudia S. Tom  
John M. Trani  
Andrew Varanelli  
James A. Vonderlinn  
Oscar W. Weber  
Harold Werbin  
George F. Widhopf  
Wai-Kin Wong  
Arnold J. Wulken  
George A. Yabroud  
Masahide Yamamoto  
Paul P. Zapryluk  
Eugene Zavadsky  
Garry A. Zephyr  
Sylvia Zucker



## 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 Wasyl Kinach '83. More pictures from these and other alumni events are available at [www.poly.edu/alumni](http://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 Giovanniello '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 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."



William K. Kramer '52

## 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 Christiana Road, 2/CS, Newark, DE 19713. Your contribution is not tax deductible.

In addition, Mariane Pearl and the Pearl family have established the Daniel Pearl Foundation to support causes that inspired Pearl's life and work, promote cross-cultural understanding and prevent hate-based violence. Tax-deductible charitable contributions can be sent to the Daniel Pearl Foundation, c/o Gibson Dunn & Crutcher, 2029 Century Park East, Suite 4000, Los Angeles, CA, 90067.



Daniel Pearl

### 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.

### TIME TO REUNITE!

The Classes of '42, '52, '77 and '92 will hold reunions this spring.

For more information on the reunions, visit [www.poly.edu/alumni](http://www.poly.edu/alumni) and click on

"Upcoming Events,"

or contact the Office of

Alumni Relations at 800/366-7659

or [alumni@poly.edu](mailto:alumni@poly.edu).

### CONGRATULATIONS

to the following alumni, who were elected to the National Academy of Engineering, one of the highest professional distinctions that can be awarded an engineer:

Dr. Morris Chang H'97  
Chairman and CEO  
Taiwan Semiconductor  
Manufacturing Co.

Dr. Bede Liu '56  
Professor of Electrical Engineering  
Princeton University

Dr. Buddy D. Ratner '72  
Professor and Director  
Engineered Biomaterials Center  
University of Washington at Seattle



**Now You Can Read and Submit Class Notes Online. Visit [www.poly.edu/alumni](http://www.poly.edu/alumni) and click on "Class Notes Online."**

**36 ANTHONY M. MAZZUCCA PE (CE)** is president of Lehigh Construction Co. in New Jersey.

**40 PAUL BECHER (CM) '42 (CM) '49 (CM)** had the third edition of his textbook *Emulsions: Theory and Practice* published in September by ACS/Oxford University Press.

**42 HERBERT J. BILLINGS (CE)** is a retired professional engineer in California. **ROBERT F. SIEBERT (CE)** underwent two successful hip replacements and performs as an organist for his church, local Masonic Lodge and the Veterans Administration.

**47 RICHARD POPHAM (ME)** is semi-retired from his engineering consulting company, Laramore Douglas and Popham.

**49 NORMAN R. BYRD (CM) '55 (CM)** is a technical fellow for the Boeing Company in Long Beach, Calif., working in materials science on composites, surface reactions, electrochemical processes and anti-icing problems. **BERNARD P. GOLLOMP (ME)** lives in Palisades, N.Y., and is a life fellow of IEEE and a life member of ASME. He is also secretary of the IEEE/OSA *Journal of Lightwave Technology* and a columnist for *IEEE Instrumentation and Measurement Magazine*. **JEROME GOODMAN (CM) '61 (CM)** is chairman of the Institutional Review Board for the American Health Foundation in Westchester and New York City. **ALVIN SALKIND (CH) '52 (CH) '58 (CH)** is chief of the Department of Surgery's Bioengineering Division of the Robert Wood Johnson Medical School. He is

**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 Engineer's (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.

**50 HENRY GUNST (CM)** lives at Roland Park Place, a retirement community near Baltimore.

**52 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 [syalt@flash.net](mailto:syalt@flash.net). **MICHAEL F. CAPOBIANCO (CH) '54 (CH) '64 (CH)** has a collection of novellas, 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.

**53 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.

**55 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 Iracane.

**56 NORBERT M. BIKALES (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. KANTER (ME)** is chairman and CEO of Levitt Industrial Textile. He and his wife, Winnie, have six grandchildren and live on Long Island.

**57 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 FLASTER (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

**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  
B1 Bio-Engineering  
CH Chemical Engineering  
CM Chemistry  
CE Civil Engineering  
CY Computer Engineering  
CP Chemical Physics  
CS Computer Science  
DM Dental Materials Science

EB Environment-Behavior Studies  
EE Electrical Engineering  
EL Electrophysics  
EN Environmental Health Science  
ES Economic Systems  
EV Environmental Engineering  
HI History of Science  
HR Human Resources  
HU Humanities  
HS Humanities-Special  
IA Industrial & Applied Math  
IC Industrial Chemistry  
IE Industrial Engineering  
IF Information Systems/Management  
IS Imaging Sciences & Engineering

IT Information Systems Engineering  
JO Journalism  
LE Life Science/ Electrical Engineering  
LS Life Sciences  
MA Mathematics  
MC Management of Technology  
ME Mechanical Engineering  
MG Management  
MH Mathematical Statistics  
MM Metallurgy & Materials Science  
MN Manufacturing Engineering  
MO Meteorology & Oceanography  
MS Material Science & Engineering/Management  
MT Metallurgical Engineering

NE Nuclear Engineering  
OB Organizational Behavior  
OR Operations Research/Management  
PH Physics  
PO Polymeric Materials  
PS Polymer Science Engineering  
PY Physical Metallurgy  
SC Systems Science  
SE Systems Engineering  
SS Social Sciences  
TM Telecommunications Management  
TP Transportation Planning/Engineering/ Management



Laboratory and MIT Riverside Research Institute. **GENNARO A. MARINO (CE)** was elected mayor of Kutztown, 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.

**58 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 hanklil@juno.com for details. AEP/Beta Pi chapter graduates from 1954 to 1962 will be attending.

**59 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@aol.com or 914/245-7773.

**60 MARTY SANDLER (PH)** has started a new venture, LGT Info Management.

**61 CHARLES MANN (MA)** received the 2000 Mathematics and Computer Science Award from the Washington Academy of Sciences.

**62 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 KLODA (CE) '66 (CE)** retired from ExxonMobil Research and Engineering Co. after 36 years. He has established a private consulting practice, Chartwell Consulting LLC, in Spotsylvania, 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.

**63 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.

**64 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 1930'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, Ogle Winston Link '37.

"Whatever the origin, 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, Rollo Ringrose is only one!' Donahue riposted 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 voluble 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 hate. Both loved *The Reporter* story [about their dispute] and happily posed for a photo, pugilistically 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."



Photos from *The Reporter*. Above: Raymond Kirk. Left: Thomas Donahue

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

He's been honored by *Who's Who in Engineering* and *Who's Who in Science and Engineering*.

**LARRY ROSENBERG (EE)** is vice president of engineering at VSI Alliance and remains a consultant to VCX, Motorola and Cadence Design Systems. **ROY L. WILSON PE (CE)** is director of the Construction Engineering and Management Program at Columbia University. He continues as president of Wilson Management Associates Inc., a construction-consulting firm he founded in 1977.

**66 JUDAH 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.

**67 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 Masry of movie fame. **JOEL KATZEN (SE)** is director of enterprise program management for the Global Information Technology Division of International Flavors and Fragrances Inc. in Union Beach, N.J.

**68 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)** retired in 2000. **MARK H. RONALD (EE)** 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.

**69 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.

**70 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.



Research Society, a 13,000-member international scientific society.

**72 MICHAEL H. SCHWARTZ (CH)** '72 (CH) is senior vice president for development at International Energy Partners LP in Bethesda, Md. **JOHN SHEA (EE)** is director of equipment maintenance for PATCO in New Jersey.

**73 ALBERT FARHI (SE)** is consulting with Misys International Banking Systems. **JOHN LASCALA (MG)** attended a World War II U.S. Guam Reunion in Buffalo, N.Y., in August. **NICK RUSSO (ME)** is an instructor in the Department of Introductory Design and Science at Polytechnic. **MICHAEL SHONE (CM)** '79 (CM) is manager of internal research and development at Northrop Grumman Component Technologies in Charlotte, N.C.

**74 AMANDO LANGELLA (CE)** retired as a professional civil engineer from the City of New York. He and his wife, Eleanor, have two grandchildren, and he plays piano and clarinet in a local community concert band.

**75 ANTHONY M. JOHNSON (PH)** is president of the 16,000-member Optical Society of America. He is chairperson and distinguished professor of physics at the New Jersey Institute of Technology.

**77 RICHARD GROLLER (MA)** is principal systems engineer of the Solutions Engineering Division at Titan Systems Corporation in Virginia. **PETER W. MCDONOUGH (CE)** is chairman of the Utah Seismic Safety Commission.

**78 ROBERT SCHROEDER (PO)** is an architectural coating specialist for BYK-Chemie USA in Connecticut.

**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. **CORNELIUS (NEIL) O'CONNOR (AE)** and his wife, Gaudy, 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 system management at Dell Computer in Austin, Tex.

**92 GEORGE LIKOUREZOS (EE)** '92 (EE) is an attorney with Long Island-based Carter, DeLuca, Farrell and Schmidt LLP, 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-Skanska 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. SHPILBERG (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. His brother, Mohamed, is a freshman at Polytechnic.

**01 PRIYA AGGARWAL (TC)** is a technical writer for Symbol Technologies Inc. in Holtsville, N.Y.

**IN MEMORIAM**

*Eugene N. Geddings '32 • John J. Giba '32 • Herbert H. Cordes '37 • William H. Freund '37 '44 • Irving Affias '41 • William A. Hunter '41 • Lionel Lipschultz '43 '47 • George H. Schneller '46 • John Happel '48 • Samuel R. Sixbey '49 • Charles Lumpkin '52 • John A. Amann '53 • Richard J. Bush '53 • Joseph N. Seidman '58 • Icarus Pyros '62 '70*

**ROBERT B. BRUNS  
1920-2001**

**R**obert B. Bruns '42, a civil engineer and war hero, died October 3, 2001, in Trenton, N.J. 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 enrolling in 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




**Robert B. Bruns**

*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 Permutit Company. In 1966, he founded International Hydronics Inc. in Princeton, N.J. 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

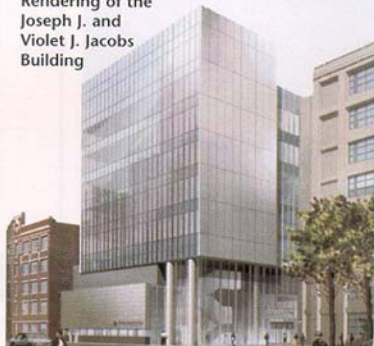
Reception: 6:30 p.m.  
Dinner & Dancing: 7:30 p.m.  
Black Tie

Tickets start at \$1,000

The Waldorf=Astoria  
301 Park Avenue  
New York City

R.S.V.P. by May 21, 2002  
718/260-4016 or  
E-mail: mscalia@poly.edu

Architectural  
Rendering of the  
Joseph J. and  
Violet J. Jacobs  
Building



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.

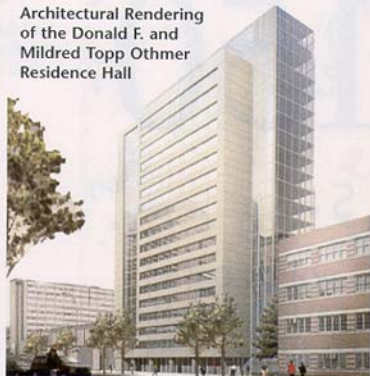
**Dedication and  
Ribbon-Cutting Ceremony**

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: ploney@poly.edu

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

Architectural Rendering  
of the Donald F. and  
Mildred Topp Othmer  
Residence Hall



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 Dibner/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. Oussani, 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. Bikales '56 '61  
David L. Sobin '72 '72 • Seiichi Takeuchi '69

**Directors 2002-2003 (one-year term)**

Kuang-Chih (Frank) Huang '71 • Philip H. Shpilberg '97

*Endorsement by at least 10 alumni is required for any additional nomination  
submitted to the Office of Alumni Relations.*



Dr. David C. Chang  
President

Dr. Richard S. Thorsen  
Vice President for Development  
and University Relations

Stuart Dim  
Executive Director of Communications  
and External Affairs

Donald N. Ivanoff Jr.  
Director of Alumni Relations  
and Individual Giving

Michelle Kerr  
Director of Communications  
Cable Editor

John F. Kelly  
Director of Media Relations  
and Campaign Communications

Therese E. Tillett  
Director of Editorial Services  
and Special Projects

Canon Advincula  
Art Director

Principal Photography by  
Elena Olivo

Address editorial correspondence to:  
Cable, Office of University Relations,  
Polytechnic University, Six MetroTech  
Center, Brooklyn, NY 11201 or call  
718/260-3400.

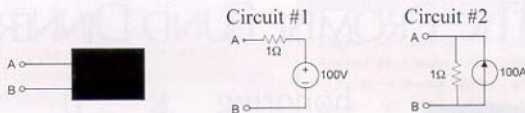
Change of addresses: Alumni Relations,  
Polytechnic University, Six MetroTech  
Center, Brooklyn, NY 11201, or e-mail  
alumni@poly.edu or call 718/260-3885.

Polytechnic Web site: [www.poly.edu](http://www.poly.edu).  
Polytechnic University is an equal  
opportunity/affirmative action institution.

**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 one of the two circuits shown below is inside the black box? Only two wires are available for you to make the determination.



Send your answer to **Therese E. Tillett**. E-mail: [tillettt@poly.edu](mailto:tillettt@poly.edu); Fax: 718/260-3084;  
Mail: Polytechnic University, Six MetroTech Center, Brooklyn, NY 11201

*This issue's question was provided by John Pertessis '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 Ørsted*  
(or Oersted) to the question:  
*The cgs units of magnetic field strength  
is named after which scientist?*

\*\*\*\*\*

**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 0s)  
for the following letters,  
ABCDE x 4 = EDCBA,  
what you do get?*

To view all respondents' names,  
visit [www.poly.edu/alumni](http://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 F. and Mildred Topp Othmer 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](http://www.poly.edu/alumni). Or contact Donald  
Ivanoff, director of alumni relations, at 1-800-FON-POLY or 718-260-3885.*

**Polytechnic**  
UNIVERSITY  
[www.poly.edu](http://www.poly.edu)

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New York, NY  
Permit #2405

**150**

**POLYTECHNIC  
CELEBRATES ITS  
SESQUICENTENNIAL  
IN 2004**