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The Executive Council of the POLYTECHNIC ALUMNI is constantly thinking of ways to better serve our members. With the assistance of the Office of Alumni Relations staff, the Executive Council organizes alumni events throughout the world, guides and supports alumni chapters and sections and establishes relationships with companies for offering membership benefits to our alumni. A list of those benefits can be found at www.poly.edu/alumni/services/index.php.

During this academic year, we have undertaken two new projects which I believe will be a great benefit to our alumni, professionally and economically. The first project is the creation of online communities of practice. Alumni will be able to join one or more online communities of practice where they can discuss topics of interest with each other. Alumni can also use this forum to establish business relationships and assist each other in solving engineering problems. While the number of communities might be small at the beginning, there is no limit to the number of specialized communities that we will be able to support. The only requirement will be that there are alumni who are willing and able to serve as moderators.

President Jerry Hultin, who proposed the concept to the alumni association, said, “These communities of practice will offer you open access to the best of the Polytechnic community—all 38,000 scientists, engineers, doctors, managers, executives—to enhance your own Power of PolyThinking.”

The second project involves a group of alumni whom we hold in high esteem. Only a small percentage of our alumni hold a professional engineers (PE) license. In New York State, all PE’s are required to complete 12 continuing education hours a year. To assist our members in meeting this requirement, the POLYTECHNIC ALUMNI have established alliances with several providers of professional development hours (PDH) credits to provide PDH courses to our alumni at discounted rates.

The project is spearheaded by our association’s Executive Vice President Edward Sawchuk ’76’76CE. One of the accredited PDH providers is a Polytechnic alumnus who welcomed the opportunity for his company to offer discounted PDH courses to fellow alumni. Some of our members have already taken the courses. If you are a licensed professional engineer, interested in learning more about upcoming discounted PDH courses, or are an accredited PDH provider who wants to provide a discount to your fellow alumni, you can e-mail your contact information to the Office of Alumni Relations at alumni@poly.edu.

We will also explore establishing alliances with providers of continuing legal education (CLE) courses to provide discounts for CLE courses to our alumni lawyers.

I want to thank Susan Lestingi, vice president, Marketing and Communications, and her staff—John Kelly, Michelle Kerr and Holly Block—for their efforts and artistic talents in redesigning Cable. I have heard a number of positive comments regarding the recent redesign. Cable is read by more than 31,000 alumni and friends around the world and the new design serves to highlight the amazing accomplishments of Polytechnic’s students, faculty, staff and, most importantly, its alumni.

In closing, I extend congratulations to one of our own, Erich Kunhardt, ’76EL on his appointment as provost and chief academic officer of the University.

George Likourezos
President, POLYTECHNIC ALUMNI
Erich Kunhardt: New Provost to Spur Innovation and Invention at Poly
Erich Kunhardt ’76EL unabashedly admits to being an inventor. But it is not a title he accepted easily. After learning Dennis Gabor, the Nobel laureate in physics, introduced himself that way, Kunhardt says, “I decided the term was indicative of my own multi-faceted personality and an apt description of my temperament.”

Poly’s new provost and chief academic officer is crystal clear about his vision for the University—a vision that is closely aligned to that of the University’s President Jerry Hultin. “I want to create a distinctive community of higher learning that values and nurtures creativity—in particular inventiveness and innovation,” he says. “This community will offer students the exposure to the full cycle of technology.”

That cycle, according to Kunhardt, is rooted in the genesis of technology in basic science and incorporates its engineering and implementation in society. “The presence and integration of these three areas into the learning environment,” he declares, “offers a very exciting arena for faculty and students.”

Creativity, inventiveness and innovation were hallmarks of Kunhardt’s tenure as dean of the Arthur E. Imperatore School of Sciences and Arts and the George Meade Bond Professor of Physics at Stevens Institute of Technology. While at Stevens, he invented a technology for generating cool atmospheric pressure plasmas with a colleague, Dr. Kurt Becker, and founded the PlasmaSol Corporation, recently acquired by Stryker Instruments. True to his credo, he used the corporation as a laboratory so students would be exposed to the full cycle of technology. Kunhardt crafted the term “Technogenesis” to describe such an educational environment. He was named a finalist by Discovery Magazine’s Innovation Awards (2001) committee in the Environmental Category for the development of the technology used by PlasmaSol for environmental remediation.

Born in the small town of Monte Cristi in the Dominican Republic, Kunhardt’s father was a physician who sparked his interest in science. After prep school in Connecticut, he moved to New York City—where he always wanted to live—and earned a bachelor’s and master’s from New York University. He subsequently entered Poly’s doctoral program in electrophysics. His fascination with this discipline was founded in his desire to explore and commingle what he calls his two extreme perspectives in scientific thought and creativity. Kunhardt explains.

“I have always tried to join two very divergent perspectives,” he says. “One is touching God or understanding the basic elements of nature and the other is touching humanity or how to make life comfortable for humans. The electrophysics program at Poly exemplified for me these two very different directions.”

After earning his doctorate, Kunhardt joined Texas Tech University as a professor of electrical engineering and physics, and was awarded the Outstanding Faculty Teaching Award during his tenure at the school. In 1984, he joined the Poly faculty as a professor of electrophysics and physics and director of the Weber Research Institute. In 1992, Kunhardt was awarded an honorary doctorate from the Russian Academy of Science, Institute of Electrophysics. He is also the recipient of numerous awards including the Thomas A. Edison Patent Award and the Halliburton Foundation Excellence in Research Award.

“Poly is poised for greatness and I want to take part in making it happen.”

Having come full circle, Kunhardt is thrilled to be working with an outstanding faculty in a small institution. “I was blown out of the water by the quality of the faculty Poly is attracting,” Kunhardt states. “Poly is poised for greatness and I want to take part in making it happen.” The University’s size is also a plus, according to the provost—the ideal setting for closer interaction among disciplines, a critical element for nurturing inventiveness.

Kunhardt lives on the upper west side of Manhattan with his wife, Christine, who teaches children with learning disabilities, and is an avid pilot and scuba diver. As Kunhardt talks about his life outside of Poly, he inevitably returns to the themes that illuminate his drive and his strategic vision for the University: creativity, inventiveness and innovation.

“The opportunity to educate students in an environment of inventiveness and teach them to think creatively is an exhilarating experience and a wonderful means of shaping Poly’s future,” states Kunhardt. “Such an approach to education will deftly position the University as a global leader in innovation.”

Left: Provost Erich Kunhardt with students in an interdisciplinary laboratory.

Below: Kunhardt chats with Net-Generation students during the Lynford Lecture.
PolyThinking Rewarded; Faculty Honored for Patent Licenses

The ingenuity that has been synonymous with Polytechnic and the Power of PolyThinking was honored at a campus-wide rewards celebration honoring 14 faculty members whose patents were licensed for over $1 million. “These faculty members have led the way,” said President Jerry Hultin, “in making Brooklyn and Poly famous as a hub of technological innovation.”

Entrepreneur James C. Paat, president and CEO of Sypherlink and the keynote speaker at the event, urged the faculty and students to not stop with invention. “Keep pushing the envelope,” he said. “Innovation and creativity are key to financial and market breakthroughs.” Paat is the founder of two information management companies, and the software he developed has been awarded Product of the Year and Technology of the Year by Tech Columbus. Paat and Polytechnic are involved in a joint research project through the University’s Brooklyn Enterprise on Science & Technology and Technology Transfer Center.

The honorees were: Janice Aber ’94 ’99CP, instructor, chemical and biological sciences; Stephen Arnold, university professor, physics; Henry Bertoni ’62 ’66 ’68EE, former head of the Department of Electrical and Computer Engineering; Jonathan Chao, head of the Department of Electrical and Computer Engineering; Nirod Das, associate professor of electrical and computer engineering; Bruce Garett, head of the Department of Chemical and Biological Sciences; David Goodman, professor of electrical and computer engineering; Mark Green, professor of chemical and biological sciences; Ramesh Karri, associate professor of electrical and computer engineering; Farshad Khorrami, professor of electrical and computer engineering; I-Tai Lu ’83EE, professor of electrical and computer engineering; Shivendra Panwar, director of Poly’s Center for Advanced Technology in Telecommunications; Keith Ross, professor of computer and information science; and Yao Wang, professor of electrical and computer engineering.

President Hultin paid special tribute to Stavroula Sofou, assistant professor of chemical and biological engineering and one of six recipients of the James Watson Award. Sofou was awarded a $200,000 research grant from the New York State Office of Science, Technology and Academic Research, to develop novel “tunable” liposomes for improved delivery of chemotherapeutic agents. Hultin praised Sofou as a brilliant young scientist and a rising star in biotechnology research.

Erich Kunhardt, Poly’s new provost and chief academic officer, was presented with a citation commending his illustrious career as an inventor of plasma technology and as an educator who is committed to creating a distinctive community of higher learning which extols inventiveness and innovation. “Here at Poly we are inventing,” he said, “and that is rare in academia. This is very exciting.”

The Rewards of PolyThinking: A Celebration of Ideas, Invention and Innovation was held in the Dibner Auditorium on January 30. For more information about the Rewards of PolyThinking, please visit www.poly.edu/news.
R. Raleigh D’Adamo ‘69ME is a problem solver. Looking back on his career, he says, “It seems as though in just about every position I had, I either started something from scratch or took something that was very broken and fixed it.”

The launching point for these accomplishments was a contest that the New York City Transit Authority ran in 1964 to create a new map for its subway system. Although he was working as a lawyer at the time, D’Adamo was inspired to try his hand at the contest by a lifelong interest in transportation and letterpress printing.

The New York subway presents a unique challenge to mapmakers because it is the only system in the world where different lines extensively run on the same tracks. On a map, New York subway lines join up and split off from each other at different points, which makes it difficult to follow a line from beginning to end.

To make things worse, New York had three different subway systems up until 1940, which were operated by two private companies and the city. When the city bought the other two systems, it produced three-color maps that identified subway lines on each system by a different color. With all of the subway routes in only three colors, the maps were very difficult to read.

The innovation that D’Adamo proposed was to use more colors to represent the different lines, so it was easy to trace one line from beginning to end by following its color. He also abolished the antiquated perception that the subway system as a combination of three older systems. The transit authority agreed, and D’Adamo was one of three first-place winners in the contest.

Winning the contest caused D’Adamo to give serious thought to a career change. He had always had an interest in transportation, and after the contest, he began to consider turning this interest into a career. However, his lack of formal training proved to be an obstacle. “As I went around looking for a job in transportation, no one would hire a lawyer,” he explained. “I was told to look into getting a grad degree in transportation, and the best place for that was Polytechnic.”

He earned a master’s degree in transportation planning and engineering from Poly in 1969, and after that, many doors opened up. “All of the technical skills I learned at Poly stood me in good stead,” says D’Adamo. “There was always that sense of honesty and integrity. You knew you were dealing with real professionals.” He found a job with the City of New York Transportation Administration, and later worked for the Metropolitan Transportation Authority as head of the Office of Inspection and Review.

In 1975, D’Adamo became commissioner of transportation for Westchester County, where he faced the challenge of building a bus system from the ground up. The bus system was such a success that in 1985, it was judged the most efficient system in the state by the New York State Department of Transportation.

In 1986, D’Adamo became executive director of the Bi-state Development Agency in St. Louis, Missouri where he had to fight opposition to create a light rail line for the city. The agency’s board believed that the program would lose money, but D’Adamo maintained that if the agency didn’t build a rail line, another company would, and the agency would have to compete with them for riders. D’Adamo prevailed and St. Louis’ light rail line now serves more than 75,000 passengers per day. During his tenure at Bi-state, the agency earned a national award for innovation from the American Public Transit Association.

In 1990, D’Adamo moved back east and became executive director of the New Haven Parking Authority. His most recent work was in Moscow with the New York City-based private engineering consulting firm STV Inc. He is now semi-retired and living in Pleasantville, New York, where he is an adjunct lecturer at Mercy College. He has been honored by the University with the Second Century Award for Outstanding Professional Achievement, during Poly’s 125th Anniversary Celebration.
Faculty Notes

George Bugliarello, president emeritus and university professor, delivered the Rustum Roy Lecture, “Science, Technology and Society—The Tightening Circle” at the Materials Science 7 Technology 2006 Conference and Exhibition in Cincinnati, Ohio in October. He also delivered the luncheon address, “Urban Sustainability, Infrastructure and the Millennium Goals” at the ASCE Annual Civil Engineering Conference’s meeting of the ASCE Board of Direction and World Federation of Engineering Organizations Executive Council. He also gave a presentation at the Hanlim Distinguished Lecture on “Urban Sustainability” at the Korean Academy of Science and Technology, Seoul, Korea on November 3 and was the invited special guest lecturer on “Urban Sustainability: Challenges, Paradigms and Policies” at Arizona State University on November 20.

Fletcher H. (Bud) Griffis, department head and professor, civil engineering, is the recipient of the Society of American Military Engineers Academy of Fellows 2007 Golden Eagle Award for his contributions to the engineering profession.

Richard Gross ’85Chem, Herman F. Mark Professor of Polymer Science and director of the NSF Center on Biocatalysis and Bioprocessing of Macromolecules, has been elected to the College of Fellows of the American Institute for Medical and Biological Engineering, an advocacy group for medical and biological engineering.

Nikhil Gupta, assistant professor, mechanical, aerospace and manufacturing engineering, has been elected chairman of the Manufacturing and Process Division of the American Society for Composites.

Jin Ryoun Kim has joined Polytechnic as the Joseph J. and Violet Jacobs Assistant Professor, Othmer-Jacobs Department of Chemical and Biological Engineering. His research focuses on protein engineering for therapeutic purposes especially in cases of neurodegenerative diseases, control of protein folding and stability and the creation of protein-based biosensors.

Rastislav Levicky is the new Donald F. Othmer Assistant Professor, Othmer-Jacobs Department of Chemical and Biological Engineering. His research encompasses biointerfacial engineering, electrochemistry, biomolecular diagnostics and biomaterials.

Jin Kim Montclare, assistant professor, chemical and biological sciences, was a recipient of a research grant from the Air Force Office of Scientific Research. Montclare will examine engineered protein polymers.

Eli Pearce, university research professor, chemical and biological sciences, received the H.F. Mark Medal of the Austrian Institute of Chemistry and Technology on November 9 in Vienna, Austria. Pearce was recognized for his outstanding contributions to the polymer industry, primarily in the field polyamides.

José Pinto, associate professor, Othmer-Jacobs Department of Chemical and Biological Engineering, mentored two YES Center Summer Research students, Janet Hui of Half Hollow Hills High School East in Dix Hills, NY and Donglin (Lynn) Yi of Hunter College High School in New York City, who were named Regional Finalist in the 2006–07 Siemens Competition for Math, Science and Technology.

Jonathan Soffer, associate professor, humanities and social sciences, lectured on “Ed Koch and New York’s Municipal Foreign Policy” at the European Conference on urban History in Stockholm, Sweden last September and at the City Seminar at Columbia University last October.

Stavroula Sofou, assistant professor, chemical and biological engineering, and Alfred Stracher, director of the Center for Drug Delivery Research (CDDR) and a professor at SUNY Downstate organized a two-day symposium on “Drug Delivery and Translational Research on December 4 and 5 at Polytechnic. The symposium featured cutting-edge research and emerging trends in the drug delivery field, presented by internationally acclaimed scientists. Sofou is associate director of the CDDR.
The devastation wreaked by Hurricane Katrina on New Orleans posed massive public health problems not the least of which was treating contaminated flood water before it came in contact with humans or was pumped into natural reservoirs. National Science Foundation-funded researchers, including José Pinto, an associate professor of chemical and biological engineering at Poly, have developed a novel system that uses a simple water purification technique that can eliminate 100 percent of the microbes in New Orleans water samples left from Hurricane Katrina. The technique makes use of specialized resins, copper and hydrogen peroxide to purify tainted water.

The system, safer, cheaper and simpler to use than many other methods, breaks down a range of toxic chemicals. While the method cleans the water, it does not yet make the water drinkable. However, the new system may eventually prove critical in limiting the spread of disease at disaster sites around the world. “After the disaster of Hurricane Katrina,” Pinto points out, “a need emerged for simple water decontamination treatment processes that could be operated by non-technical personnel, are cost effective and do not generate toxic by-products.”

The treatment system that Pinto and the researchers are developing is simple: a polymer sheet of resins containing copper is immersed in contaminated flood water. The addition of hydrogen peroxide generates free radicals on the polymer. The free radicals remain bound to the sheet where they come in contact with bacteria and kill them. To develop their process, the researchers built upon a century-old chemical process called the Fenton reaction—a process wherein metal catalysts cause hydrogen peroxide to produce large number of free radicals.

Pinto explains that free radicals are atoms or molecules that have an extra electron in dire need of a partner; they obtain the partner by stripping it from a nearby atom, damaging the “victim” in the process. In large quantities, the radicals can destroy toxic chemicals and even bombard bacteria to death or irreparably damage a microorganism’s cell membrane.

Researchers Vishal Shah and Shravya Shah of Dowling College in Long Island, New York, and Boris Dzikovski of Cornell University collaborated with Pinto. They will publish their findings in the journal Environmental Pollution.

Michael Plesniak, renowned for his work in fluid dynamics, has been named the first professor to hold the Eugene Kleiner Chair for Innovation in the Department of Mechanical, Aerospace and Manufacturing Engineering. As a member of the engineering faculty at Purdue University, Plesniak applied his work in fluid dynamic principles to functions of the human body focusing on the cardiovascular system and human speech production. His outstanding research led to his appointment as the program director for the National Science Foundation. He holds a doctorate in mechanical engineering from Stanford University and bachelor’s and master’s degrees from the Illinois Institute of Technology.
Westchester Campus Revitalized! Information Technology Leader Named Associate Provost and Dean

Dr. Andres Fortino, a world-renowned specialist in information technology and technology management, has been named associate provost and dean of the University’s Westchester campus. In his new role, Fortino intends to leverage his expertise in engineering and technology to support the University’s new initiatives as well as develop the Westchester campus as a center of excellence and a resource for the Hudson Valley.

“We are excited to have Dr. Fortino join the Polytechnic family,” said President Jerry M. Hultin. “His previous work in technology and academics demonstrates his passion for encouraging students to reach and achieve their goals. His initiatives to build programs and curricula exemplify his dedication to enhancing the educational experience for our future engineers.”

Over the past 30 years, Fortino has developed a well-rounded background in both the academic and business sectors of information technology and technology management. Most recently, he served as dean of the School of Management at Marist College. Prior to joining Marist in 2004, he established innovative curriculums, including master’s programs in bio-science management and in technology management at George Mason University in Virginia and an online MBA program for Northrop Grumman executives.

Fortino has developed an aggressive strategy to grow the Westchester campus and says that Poly will lead with its strengths in computer science and information systems engineering, technology and project management and in chemistry throughout the Hudson Valley. “We are strongly committed to serving working professionals who are studying part-time,” Fortino said. “We plan a portfolio of public courses as well as programs for many of the large corporations in the Westchester region such as IBM, Pepsi-Cola North America, Kraft Foods, Fujifilm USA and the New York Power Authority.

Fortino also expects to be bringing back to Westchester the once popular technical management education program focused on technology management and project management. “One interesting area, for example, which combines technology and management, is the education of the chief information officer (CIO),” he noted. “We must educate CIO’s to be more effective leaders at the highest levels of an organization. I have done a lot of work for the federal government in setting up their CIO University, which can be a model for what we can do for corporations and state and local governments.”

The author of eight information technology and network management books, Fortino holds a bachelor’s and a master’s in electrical engineering from City College of New York and completed his academic studies by earning a PhD in Electrical Engineering from the City University of New York. He is a Fulbright Scholar, a visiting professor at Cambridge University and is currently serving as president of the Technology Management Educational Association. Early in his career, Fortino was a staff engineer with IBM, where in addition to filing several patents and numerous invention disclosures, he was honored with IBM’s First Invention Level Award for his efforts in semiconductor research.

Fortino’s energy and enthusiasm is formidable. “We will pursue programs that will make Poly’s Westchester campus a greater asset to the region than it already is,” he declared. “We take seriously our role as the only pure technology player here and many leaders I have spoken with are looking for our leadership in high quality STEM (science, technology, engineering, mathematics) education. Poly is the answer!”
Rewards Celebration
Polytechnic honored a new wave of Polythinkers during the Rewards Celebration ceremony. Read the complete story on page 6.
Performing Arts Club Music Showcase

Above left: No matter your taste in music—classical, rock, jazz, blues—the Fourth Annual Poly Music Showcase in December had something for every music lover. The event, sponsored by the Performing Arts Club, was an opportunity to feature the musical talents of students and faculty. There were individual performances as well as groups such as Mikhail Told Us, Stereophile and Motif, pictured here.

Lackmann Food Service Wins Award

Above right: President Hultin joined the dedicated staff of Lackmann Culinary Service for a photo-op as the winner of the Unit of the Year Award.

Daly Alumni Achievement Award

Left: Professor Harold Kaufman, management, left, presents Kenneth Daly ’99MG, vice president of financial and employee related services, KeySpan, with the Alumni Achievement Award on December 6. Daly spoke to an audience of alums and students about the importance of being flexible in an ever-changing workplace and the effects of mergers and acquisitions on the corporate environment.

Wechsler Award Presented

Jin Kim Montclare, center, assistant professor, chemical and biological sciences, is joined by Bruce Garetz, department head, left, and benefactor Harry C. Wechsler 48Chem, president of Boston Systematics Inc. and Polytechnic trustee during the presentation ceremony as the 2006 recipient of the Wechsler Award for Excellence on November 3. The award is given biennially to recognize and support excellence in research among Poly faculty in the early stages of their careers.
Lynford Lecture Hosts Ethernet Inventor
Above: Robert Metcalfe, technology engineer and co-inventor of the Ethernet spoke to an SRO audience at the Lynford Lecture, “Ethernet Is the Answer...What Is the Question?” on December 7.
Left: President Jerry Hultin, left, with Metcalfe, recipient of the IMAS Award. Right: President Hultin with the lecture’s benefactor, Jeffrey H. Lynford, chairman, Wellsford Real Properties Inc., right, and his wife, Tondra, Robert Prieto, senior vice president, Fluor Corp., and Poly trustee, David and Gregory Chudnovsky, industry professors IMAS and Metcalfe.

Weisstuch Dedication in Othmer
Center: Poly Trustee Donald N Weisstuch, senior vice president of transportation (retired), Sverdrup Corporation, second from the left, at the unveiling of the plaque bearing his name in the Othmer Residence Hall. Joining Weisstuch are right, Andrew Sherman ’08, and Greg Becker ’07.

Holiday Party
Bottom L–R: Employees got an early start on holiday festivities at the Poly Holiday Party on December 13.
Below left: L–R: John Di Bartolo, lecturer, physics, Robert Griffin, coordinator student programs, student affairs, Cheryl McNear, associate dean, student affairs, Homer Howell, network technician, information systems. Below right: L–R: Zahra Patterson, administrative assistant, alumni relations, Jovan Mijovic, head, chemical and biological engineering and Juliette Acker, program manager, enjoy the sumptuous buffet.
Estate Planning: The Benefits for You and Poly

Estate planning offers you greater power over your legacy and decisive control over how it will continue to serve your values after your death. Sound estate planning is critical to ensuring that your wishes will direct the distribution of all of your assets.

Thoughtful planning for the future may reveal greater benefits to your heirs when philanthropy is included by reducing estate taxes. An outright gift to Polytechnic University through your will, or a bequest, is the simplest way to achieve this. At the same time, you support Poly in its mission to continue to create the next generation of inventive engineers whose innovative technologies will improve the lives of your heirs.

You may wish to explore a charitable trust as a way to add to your retirement income options. Basic trust vehicles have similar advantages. There are many similar models, but one will suit you best.

The first three trust models all offer you income for as long as you live, as well as a charitable tax deduction now. More specifically, they provide income for life for you or a loved one or both, and a charitable tax deduction in the year the trust is established with a five-year carry over based on the age of the beneficiaries. The minimum age is 60 years. You can confidently hand over the investment responsibility of your portfolio to trusted advisors. Examples of gifts to trusts include low-yield dividend stock. Some Poly alumni see an increase in the income through a charitable trust option, elimination of capital gains taxation for reinvestment purposes, and the personal satisfaction of knowing that your hard-earned money also is doing something of value that will last.

You want to know that you are getting features that will add to your enjoyment now. Each of these trusts has unique features that can add comfort to your retirement and make it the “right fit.” Here are some of the distinctive features of each:

**The Charitable Gift Annuity with a minimum gift of $10,000.**
This is a contract between you and Polytechnic University and simple to execute. The lifetime pay-out percentage rate is determined by a formula based on the age(s) of the beneficiaries. If you are the beneficiary, you will receive a fixed-income stream for the rest of your life, as well as the charitable tax deduction when you fund the annuity.

**The Charitable Remainder Unitrust with a minimum gift of $100,000.**
This requires a trust agreement. You select the income pay-out percentage usually between 5–8 percent, depending on age. While that percentage remains constant over the life of the trust, the value of the principal will change with market conditions that will affect your actual annual income. This favors those who want to see growth in principal and income.

**The Charitable Annuity Trust with a minimum gift of $100,000.**
A trust agreement is required. You also choose the income pay-out percentage usually between 5–8 percent, depending on age. Income is fixed at the time the trust is established. Regardless of the rise or fall of market conditions, your income stream will remain the same annually. This favors those who want to guarantee a set income over time.

The Charitable Lead Trust (CLT) with a minimum gift of $500,000 is a more sophisticated estate planning tool and has benefits that are distinctly different than those mentioned above. A trust agreement is required, but a period of years is determined when income goes to the charity. The trust assets will eventually pass along to your heirs. The CLT enables a donor to make a large, deferred gift to heirs at a very low gift-tax cost. The trust assets are not included in the donor’s estate, and are not subject to estate tax.

If you would like more information on these trusts, or illustrations of the estimated income and charitable deduction, please call Thomas Daly, director of planned giving and development operations, at (718) 260-3364, or e-mail him at tdaly@poly.edu.
Donor and Scholar Snapshots

Jonathan Fromm ’07CBE

"Poly has given me a wealth of learning opportunities. I have been able to do important research in a prominent field, intern at Bausch & Lomb’s research and development center and take classes with world-renowned professors.

Thanks to people like Mr. Howard Lerner, and the Lerner Scholarship, I am able to continue my education at this world-class school. I am excited to see what other opportunities Poly will bring me."

Michael E. Hora

"We have a small family foundation that provides support to a number of worthy organizations.

We liked Poly when we lived in New York during the mid 90s. Poly people are strivers who don’t start with great advantages. Those are the kind of people we like to help. As I look back, I recall that without the generosity of others, I would not have been able to go to the high school of choice. So while it’s cliché, we are glad to give back and we are proud to help Poly in some small way."

Vice President (retired)
A.T. Kearney, Inc.
Trustee, Polytechnic University

Gift:
$10,000 Poly 100
$1,000 to the 2006 Promise Fund Dinner

Don’t Leave 2007 Without Them—Tax-Free IRA Deductions for Direct Contributions to Polytechnic

This limited-time opportunity is perfect way to gain the tax advantage you are looking for by investing in your alma mater. If you are over 70 years old, don’t wait to take advantage of this opportunity because the 2006 Pension Protection Act expires on December 31, 2007. Transfers of up to $100,000 to Poly are tax free.

Did you also know that an IRA is an ideal way to include Polytechnic in your estate planning? An IRA bequeathed to Poly may avoid income taxes for your heirs AND qualify for an estate tax deduction. All you have to do is select Polytechnic as the beneficiary on the form provided by your IRA administrator.

For more information on making a contribution to Poly from your IRA, or about other ways to establish a legacy, contact Thomas Daly, director of planned giving, at (718) 260-3364, or e-mail him at tdaly@poly.edu. Ask for a complimentary copy of “Taxpayer’s Home Companion for 2006 Returns Due in April 2007.”

We’ll send you a copy of this popular collection of tax tips.

Get Out and Vote: Nominations for POLYTECHNIC ALUMNI Officers and Directors

Elections will take place at the Annual Meeting on Sunday, May 20, at 2:30 p.m. in the auditorium of the Dibner Library Building. All alumni are invited to attend and vote.

International Board of Directors: 2007 – 2010
Christine C. Ianuzzi ’87 ’94
Neil D. Weiser ’73
Luther L. White ’87
Rosa Suazo Yaghmour ’98

President: George Likourezos ’92 ’92
Executive Vice President: Edward Sawchuk ’76 ’78
Vice President: Constantino P. “Gus” Sirakis ’97
Treasurer: Michael Urmeneta ’92 ’00
Secretary: Debra R. Freedman ’81

Additional nominees may be submitted to the Office of Alumni Relations by April 19 and must be endorsed by at least 10 alumni. For more information regarding the annual meeting please visit www.poly.edu/alumni “Events” ■
Note: The University records only 12 remaining alumni from the 1920s. Here is a note from one of them:

**Vincent M. Zaffarano ’28ME** retired in 1969 as manager of engineering of the Jim Walter Co. of St. Petersburg, Florida. He served during World War II with the conservation division of the War Production Board in Washington DC. He has lived with his family in Roanoke, VA since 2001 and is reasonably good health at the age of 102.

**O. Arthur Olsen ’37CE** loves to play golf and travel at age 91. He went to Iceland in July and a safari and mission trip to Kenya in October.

William H. Heim ’41ME served as a captain in an aircraft maintenance squadron during the World War II and had a long career at Western Electric. At 88, he enjoys walks with his daughter and talking about Polytechnic with his son-in-law, Dr. Alan R. Davis ‘98CS. Although retired, he has been employed by Phantom Works Division working in material science.

**John W. Margosian ’46AE** lives in Naples, Florida and has written three genealogy books. Classmates can e-mail him at billbergen@naples.net.

Richard Laster ’44ChE is chairman of Wellgen, a nutrigenomics company he founded. He was presented with a Spirit of Humanity Award by Senator Hillary Clinton.

**William S. Bergen ’43ChE** lives in Naples, Florida and has written three genealogy books. Classmates can e-mail him at billbergen@naples.net.

**J. Lawrence Katz ’50 ’51 ’57PH** gave an invited talk at the Fourth Joint Acoustic Society of America—Acoustic Society of Japan conference in Honolulu in December. The talk focused on acoustic measurements of bone properties.

Anthony Annunziato ’52 ’58EE received his New York State home inspector’s license. He has nine grandchildren and enjoys seeing his classmates from the class of ’52 and his Alpha Phi Omega brothers, who were charter members.

Frank Padavan ’55EE won reelection to the New York State Senate from the 11th district, which he has represented for 32 years. He currently serves as vice president pro tempore and co-chair of the State Senate Task Force on Government Reform.

Donald A. Sackman ’55EE celebrated the 30th anniversary of founding Sackman Associates, a management consulting firm specializing in international technology transfer.

Daniel J. Shybuno ’55CE was named CEO of GSE Dynamics Inc. in Hauppauge, NY.

Mario Cardullo ’57 ’59ME was a guest at the 2006 RFID Breakthrough Awards in London in November and was recognized by the RFID Forum as being the inventor of the modern RFID tag. He is counselor for technology and entrepreneurship at the U.S. Department of Commerce.

**Mel Baruch ’60 ’62ME** is retired and practicing his hobbies including digital photography and photo enhancement, stained glass making, oil painting, bowling, golfing and softball.

At age 92, **Joseph Kovel ’60ME** is an active volunteer at the Cradle of Aviation Museum.

**Carl R. Sloan ’60CE** has retired from the practice of law and now spends the summers in the Berkshires and the winters in Boynton Beach, Florida.

Joel Hirschhorn ’61 ’62MT has written a second book “Delusional Democracy: Fixing the Republic Without Overthrowing the Government.”

**Martin Edelman ’62MA** sings with the Mendelssohn Glee Club and the University Glee Club and works for the NYC Department of Corrections on Rikers Island as the director of materials management.

**Roger H. Lang ’62 ’64EE ’68EL** holds the L. Stanley Crane Chair in Engineering and Applied Science at the George Washington University.

**Marvin King ’63EE** is president and CEO of the non-profit Riverside Research Institute, which is conducting active projects in biomedical engineering and national security.

**Richard J. Schwarz ’63AE** has retired from the Boeing Aerospace Corp.

**Paul Birman ’65EE** recently completed a month-long expedition to the South Pacific.
Tou-Ling Fan ’65Chem, in collaboration with the International Center of Princeton University, organized a student mentoring program to assist Princeton’s Chinese students to better adapt to American culture and society.

Milton J. Minneman ’66EE was elected to the Maryland Democratic Party Executive Committee.

Raymond W. Simpson ’66 ’66EE is chief engineer of the PI/Acton division of Roper Scientific Inc.

Bernard Monahan ’67CE is a professional engineer who consults on construction, safety and other civil engineering topics. He is past director of the American Society of Civil Engineers and currently serves as editor of the ASCE’s Practice Periodical on Structural Design and Construction.

Joseph Paris ’67EE recently produced “Last of the Red Hot Lovers” for Township Theatre Group, a community theater company in Huntington, NY.

Robert Keller ’68EE ’71 ’73EL has retired from Northrop Grumman and is now teaching physics for the University of Delaware Department of Physics and Astronomy.

Marshall L. Fishman ’69Chem co-edited the book “Advances in Biopolymers: Molecules, Clusters, Networks and Interactions.”

Frederic Quan ’69EE retired as the manager of technology acquisition for Comwing Inc. after 31 years. He will continue to do some consulting and help educate young people on the benefits of technology as a career. He’ll spend any other spare time fishing.

Paul Schnitzler ’69EE is a professor of industrial and management systems engineering at the College of Engineering of the University of South Florida in Tampa. He is a faculty associate for the school’s Center for Entrepreneurship and has been granted six patents.

Ramon Mosteiro ’70SS completed his 30th year in the life and health insurance business and is now with AXA Advisors LLC.

Martin L. Green ’70 ’72MT is group leader for electronic and optoelectronic materials at the National Institute for Standards and Technology in Gaithersburg, Maryland.

Anthony R. Ingraffea ’71CE received the George R. Irwin Medal from ASTM International for his pioneering and outstanding contributions to the advanced computational simulations of fatigue and fracture processes and the resulting improved understanding necessary for practical applications of fracture mechanics to the assessment of integrity in engineering structures.

Cesar Levy ’72AE has been appointed program evaluation volunteer for ME programs by ABET. He is a professor at Florida International University.

Steven Pertusiello ’72EE ’76MG has retired after 34 years of service with Consolidated Edison and started his own consulting firm, SPERT Consulting LLC.

Anthony J. Puglisi ’72ME has retired from Boeing Co. after 27 years of service and is now working as a contract engineer on Boeing’s 787 project.

Buddy Ratner ’72Chem was elected a fellow of the American Association for the Advancement of Science and was presented with the Founder’s Award from the Society for Biomaterials.

Roy Yasin Abdullah ’74EE ’79MG retired after 31 years at AT&T/Lucent in system equipment engineering.

David R. Kilanowski ’73ChE is a senior principal investigator at Velocys Inc. in Plain City, Ohio.

Kirsten Moy ’73OR heads the economic opportunities program, which promotes learning about poverty alleviation, self-employment and employment strategies, for The Aspen Institute in Washington, DC.
Charles Camarda To Receive Distinguished Alumnus Award

Charles J. Camarda ‘74AE, Polytechnic’s first astronaut, will receive the alumni association’s highest honor, the Distinguished Alumnus Citation, at the annual meeting of the POLYTECHNIC ALUMNI at 2:30 p.m. on Sunday, May 20th. Camarda will deliver brief remarks following the presentation of the award.

All alumni are invited to attend the Annual Meeting celebrations. The day begins with a full Sunday brunch at 12 noon in the Jasper Kane Dining Hall, in Rogers Hall. Tickets are $15. Campus tours will also be available for alums and their spouses. Members of the reunion classes of ‘67, ‘77, ‘82, ‘87, ‘97 and ‘02 will be honored at the brunch. The Annual Meeting and award presentation will begin promptly at 2:30 p.m. Admission to the Annual Meeting is free of charge.

Class Notes (con’t.)

Richard Schulkind ‘74ME is associate director of engineering at IQuum, a molecular diagnostics instrumentation company, in Malborough, MA.

Saibalesh Mukhopadhyay ‘75’85OR is director of international testing and implementation for Citibank.

Dwight Bramwell ‘76ME established Bramwell Engineering Inc. based in Houston, Texas, providing services to the forging industry. He is a Six Sigma black belt.

Christopher C. Swan ‘77EV is director of municipal relations and siting for Northeastern Utilities in Connecticut.

Brigadier General Michael Walsh ‘77CE is the commanding officer of the Army Corps of Engineers, Gulf Region Division in Baghdad, Iraq.

Joseph Boroden ‘79Chem is manufacturing director for Kemira Water Solutions’ Polymer Division, with responsibility for sites in Alabama, Louisiana and Washington. He lives in Daphne, AL.

Merrill Goldenberg ‘79Chem is a scientific director at Amgen, working in the pharmaceutics department.

Glenn D. Govier ‘80EE is service marketing manager of SONY’s broadcast and business solutions company.

Joseph P. Loughran ‘82OR is president of Smart-Tran Inc., which specializes in rate negotiations in the parcel delivery industry.

Jorge Julian ‘83EE is the owner of Slipp-Nott Corp., which makes the official traction mat of the NCAA. The product removes dust and dirt from shoe soles and is used by the NBA, NCAA basketball and volleyball championships and thousands of high schools (and by the Polytechnic Blue Jay basketball teams).

Jeffrey Maines ‘83Chem ‘88IE is working as a volunteer at Long Island Jewish Hospital as he continues to recover from a traumatic brain injury.

Achilles Tsakeredes Sakis ’85AE is a major stationed at the U.S. Air Force Test Pilot School where he is a test instructor and was recently promoted to the position of performance branch chief.

Attilio E. Martino ‘87ME writes psychological self-help books dealing with the science of the mind in accordance with Dianetic principles.

James G. Bralla ‘92MN has written the “Handbook of Manufacturing Processes: How Products, Components and Materials Are Made” which is published by Industrial Press.

Matthew Wells ’94EE works for Goldman Sachs & Co. in human capital management.

Leonid Vayner ’95CS has been named to the technical advisory council of VeriSign Inc. and is vice president of IT risk management for application security at JPMorganChase.

Robert Kettles ‘96CompE ‘05InSE is a presales technology specialist for CA in Stamford, CT.

John T. Sexton ’97EV is in his 25th year with the Department of Environmental Protection and is currently the site manager for two projects at Wards Island.

Louis Minakakis ’99MG is vice president for global strategy and program management at Citigroup Global Operations and Technology in NY.

Sinem “Sim” Senol ’00OB and her husband, Mahmut, became proud parents to Ali Nazim on Mother’s Day.

Monplasir Hamilton ’01 CompE/EE is in his third year of law school and is working as a patent agent in Washington, DC.

Gina Bumshteyn ’04CompE/EE is an electrical engineer working at DMJM Harris in New York.

Kevin Didden ’04CS ’05MG is a systems analyst and project lead for Universal Security Systems.

William Ricci ’06ME joined Trelleborg Emerson & Cuming Inc. in Canton, MA as a research and development engineer.
Steve Greenfield ’43ME, who served as the chairman of Parsons Brinkerhoff for 14 years, died on November 17, 2006 in Englewood, NJ. He was 84.

He joined Parsons Brinkerhoff in 1947, became a partner in 1964 and chairman in 1982. During the 1950s, he directed the development of the first state-of-the-art hardened underground defense facility at Fort Ritchie, MD. He designed four additional defense facilities—improving the design at each juncture. His pioneering work in subway ventilation for the San Francisco Bay Area Rapid Transit (BART) System resulted in his writing the “Subway Environmental Systems Handbook,” a reference manual used throughout the industry. He founded United American Energy, an independent energy producer in 1980, serving as its chairman until 1995.

Greenfield pioneered work on strategic projects ranging from military installations to nuclear waste repositories, playing a vital role in various capacities on projects such as the Department of Energy’s Strategic Petroleum Reserve Program. He was instrumental in developing PB-KBB, a jointly owned solutions mining subsidiary, to undertake the program and later became its chairman. He also served as chairman of the Executive Committee for the Superconducting Super Collider Accelerator, one of the largest scientific construction programs ever undertaken.

Greenfield earned a Bachelor of Science in Mechanical Engineering from Polytechnic University in 1943. He was a member of the National Society of Professional Engineers, the Society of American Military Engineers (SAME) and the Moles. He served as president of the Moles and SAME. He was the recipient of the Engineering News Record Award for Leadership, the March of Dimes Transportation Man of the Year, the Moles Outstanding Achievement Award, and the Polytechnic Alumni Achievement Award and Sesquicentennial Medal.

He is survived by his wife, Judy, his children, Meryl and Bruce and five grandchildren.
President Jerry Hultin, center, is joined by Robert B. Catell, chairman and CEO, KeySpan Corporation, left, and New York State Senator Eric Adams at the Leadership Breakfast and Innovation and Technology Think Tank, cosponsored by Polytechnic and KeySpan Corporation on February 9. The breakfast brought together industry leaders, academics and politicians for an open discussion on education and urban youth, defining the sustainability of urban systems in Brooklyn and New York City, health and wellness and global information technology.