On the cover: The Supermileage Vehicle achieved 1,902 mpg to win the U.S. Shell Eco-Car Challenge. The team members included: (standing from left) Tom Heckel, Vann Chau, faculty advisor Dr. Peter Schuster, faculty advisor Dr. Joe Mello, and Josh Kempenaar; and (kneeling from left) Kevin Fang, Jason Kempenaar, David Ulrich, Mike Kerns, and Estevan Negrete.

Each year, dozens of projects like the Supermileage Vehicle are designed and built in the Bomderson Projects Center (photo at top).
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Message from the Dean

Dr. Mohammad Noori, Dean of the College of Engineering stands in the beautiful new Engineering Plaza with Engineering IV in the background.
When I began my tenure as dean, I entered a construction zone. The Bonderson Projects Center, Engineering IV and the Plaza consisted of mud and steel girders, but in less than two years, the blueprints have come to life—and we couldn't be more excited.

Excited, of course, to move into sparkling new, state-of-the-art facilities, to watch students grow their projects and stretch their imaginations as they take over the Bonderson Center workshops.

But we’re even more excited about the potential our new campus holds. More than giving us room to expand, these cutting-edge facilities give us the opportunity to lead the nation in engineering education.

We intend to create an engineering program that can address new global challenges and meet the needs of a changing social landscape. To help design the blueprint for this vision, I’ve called upon the Dean's Advisory Council, faculty and staff. Together, we’ve taken up the inspiring but arduous task of writing a new strategic plan for the college.

A few key goals and concepts have emerged. Perhaps first and foremost is our steadfast dedication to Cal Poly’s hallmark hands-on, project-based learning, and we remain committed to expanding our strong partnerships with industry.

Also clear is the need to expose students to an interdisciplinary perspective and to emphasize the impact of technology on society. Development of a cross-college freshman experience that has a strong service-learning component is one way to address these goals, with the added benefit of helping to recruit and retain more women and underrepresented students, which is imperative.

To respond to the needs of industry and society, while building on our own institutional strengths, we have started identifying possible “thrust” areas for the college, including sustainable energy systems, air and space transportation systems, bio-engineering, engineering education, and engineering innovation.

To accomplish these ends, we must overcome barriers between departments and facilitate more multidisciplinary capstone and senior design projects. We see the Project Based Learning Institute as a principal catalyst in this effort, and we’re delighted that this centralized conduit for industry sponsored student projects and faculty applied research has already generated membership commitments from partner companies.

As we move forward, we welcome your input and feedback. Certainly, we cannot fulfill our mission and vision without the support of loyal alumni, generous friends and industry partners, and outstanding and devoted faculty and staff.

Dr. Mohammad Noori, Dean
Message from Paul R. Bonderson, Jr.

Last June, I was privileged to give the commencement address at Cal Poly’s graduation. I was particularly honored because my daughter Trisha was a member of the graduating class. Although I don’t normally embrace public speaking, I found that the speech gave me the opportunity to clarify the important lessons of my life.

I realized that three of the primary things I have learned throughout my life and career have to do with learning, passion, and giving—which describe my relationship to Cal Poly as an alumnus, volunteer, and donor. And I can say, unequivocally, that my involvement with the university is both deeply satisfying and immensely enjoyable.

When I graduated, I had a set of skills that allowed me to start my career. But Cal Poly gave me more. My education instilled me with a thirst for knowledge, a desire for lifelong learning and the basics of how to learn. These are truly the keys to success. As an alumnus, I am ever more grateful to Cal Poly for making me a life-long learner and I want to make sure that this university continues to enlighten future generations with this important value.

My next big life-lesson was recognizing the importance of pursuing your passion. My passion, I’ve realized, is building things. Whether it’s a circuit board, a high speed switch, a company, a wetland habitat, or a family, I just love to build things! So my passion combined with my strong feelings about Cal Poly and engineering education led me to build a project center for the College of Engineering and to invest my time as a volunteer building the university.

The third lesson is about giving. Looking back, I realize the importance of those who were willing to give me their all, to share their knowledge and their time—professors who went the extra mile for my last paper, my senior project. So, now it’s my turn to contribute and to give back. Through my volunteer work and through gifts Sandi and I have made to Cal Poly, I’d like to think that I’ve benefited students, supported faculty and enabled the school to keep in touch with industry.

I have found my relationship to Cal Poly as an alum, volunteer and donor to be personally rewarding and, above all, fun! I’d like to thank all the donors listed in this publication for their support, and I’d like to encourage all fellow alumni to join me in building something extraordinary: a College of Engineering that will do for future engineers—perhaps your own daughter or son—what it did for you and me.

Paul R. Bonderson, Jr., Co-chair
Dean’s Advisory Council
2006-2007 Highlights

- The College of Engineering (CENG) was ranked No. 2 in the nation for public schools whose highest degree is a bachelor's or master's by U.S. News & World Report. Cal Poly's electrical and industrial/manufacturing programs were ranked as the top at a public university. Computer Science ranked No. 2, and Aerospace ranked No. 3.

U.S. News also named Cal Poly as the best public-master's university in the West for the 14th year in a row and recognized the university as a Program to watch for Undergraduate research/Creative Programs.

- In Fall 2006, CENG enrolled 4,706 undergraduates and 273 graduate students, admitting 63.9% of the 5,942 new student applicants. The average SAT for freshmen was 1,230 (math and reading); the average high school GPA for the class was 3.69.

- The Bonderson Projects Center opened, providing 1,900 square-feet of specialized space for faculty and student projects.

- The Project Based Learning Institute, which offers a centralized conduit for industry sponsored student projects and faculty applied research, received two industry memberships and pledges from six additional companies.

- Engineering IV was completed, providing 104,000 square feet for mechanical, industrial and manufacturing, civil and environmental, and aerospace engineering programs.

- A new Dean's Advisory Council convened with more than 50 representatives, including university presidents, corporate CEOs, engineering deans, entrepreneurs, distinguished researchers, and a former congresswoman.

- Donors Dale Nix and Don Heye provided new scholarships, including five $4000 scholarships for freshmen and a $17,500 merit-based grant to an entering or current student. The scholarships are distinct in being renewable for up to four years.

- A $500,000 gift from Paul Bonderson (EE '75) established the Bonderson Fellowships providing two five-year scholarships for students earning master's-doctoral degrees at Cal Poly and UC Santa Barbara in biomedical and materials engineering.

- Engineering student scholarships increased from $180,000 per year in 2005-06 to $250,000 for Fall 2007, including $180,000 for freshman recruitment.

- Cal Poly, Seoul National University of Technology and six other universities from around the world established a partnership to address the future of engineering education.

- The Engineering Plaza was completed.

- A significant increase and expansion of outreach activities included service learning programs in several departments and a new engineering summer camp for girls.

- Donald E. Bently, president of the Bently Pressurized Bearing Company, received an honorary degree of Doctor of Science. His support to the college included $6 million in 2003 to establish the Bently Center for Engineering Innovation.

Student Team Achievements

- The CubeSat program launched two picosatellites from the Baikonur Cosodrome. AERO graduate students traveled to Kazakhstan to assist in launch preparations.

- For the fifth straight year, Cal Poly's Society of Women Engineers (SWE) was named the nation's best “large” student section. The group also took 2nd for Team Tech.

- The Cal Poly Supermileage Team won the U.S. Shell Eco-Car Challenge by achieving an astounding 1,902 miles per gallon.

- A CENG multidisciplinary design team was selected as one of three North American winners of the Enhanced Safety of Vehicles International Collegiate Student Safety Technology Design Competition for its Pre-Crash Sensing Demonstration System.

- Cal Poly's Society of Civil Engineers placed fifth at the National Concrete Canoe Competition.

- Engineers Without Borders undertook projects on two continents, working to improve conditions in Nueva Vida, Nicaragua, and rebuild a struggling community on the Indonesian island of Nias.

- The Cal Poly Human Powered Vehicle Club (HPV) won 1st place in the female sprints, 1st in men's and women's mixed sprints, 3rd in design, and 2nd place overall at the 2007 American Society of Mechanical Engineers (ASME) HPV Competition.

- Cal Poly's ASME (American Society of Mechanical Engineers) won the Ingersoll Rand Competition for the West Coast Region for the tenth year in a row.
Student Success

- ME senior Todd Maki served as Associated Students Inc. (ASI) president.

- EE student Jessica Kiefer received a $10,000 scholarship from Google for her efforts to inspire young women to consider careers in engineering.

Faculty Achievements

- Dr. Diana Franklin (computer science) received a five-year, $300,000 NSF Early Career Development (CAREER) Grant.

- Dr. Lynne Slivovsky (electrical and computer engineering) was named a Faculty Fellow in the Service Learning for Political Engagement Program.

- Dr. Trevor Harding (materials engineering) was one of three researchers from Cal Poly, University of Michigan and Lawrence Technological University, to receive a three-year NSF grant for a curriculum innovation project.

- Drs. Jianbiao Pan (industrial engineering), Albert Liddicoat (computer engineering) and James Harris (electrical engineering) were awarded a $199,030 NSF grant to incorporate multidisciplinary, project-based learning in the computer engineering curriculum.

- Helene Finger, WEP director, was awarded a Doctoral Scholars Fellowship by UC Santa Barbara and an NSF Graduate Research Fellowship.

- Drs. Mei-Ling Liu (computer science) and Jose Macedo (industrial and manufacturing engineering) were named Fulbright Scholars.

- Dr. Dan Biezad (aerospace) received Cal Poly’s Distinguished Scholarship Award.

Clockwise from top: Concrete Canoe team places fifth. Engineering Plaza gets finishing touches. Human Powered Vehicle earns second place overall at the ASME’s HPV competition. CubeSat launches two picosatellites.

Alumni Success

- Paul R. Bonderson, Jr. (EE ’75) received an honorary degree of Doctor of Science in recognition of his support of project-based learning. He and his wife Sandra established the Bonderson Projects Center with a gift of $8.5 million.

- Rick Sturckow (ME ’84) commanded Space Shuttle Atlantis on a mission to the International Space Station.

- Burt Rutan (AERO ’65), and British entrepreneur Richard Branson announced plans to carry “tourists” to space on Virgin Galactic.
AERO
Aerospace Engineering

- Seven picosatellites, including two Cal Poly CubeSats, were successfully launched into space on April 17 from the Baikonur Cosmodrome in Kazakhstan. The CubeSats were deployed by Cal Poly-built P-Pods, which were affixed to the Dnepr-1LV rocket with the assistance of AERO grad students Roland Coehlo, Lori Brooks, and Jonathon Brown.

- Design expert Dr. Robert McDonald joined the department.


- Dr. Dan Biezad received Cal Poly’s Distinguished Scholarship Award.

- AERO faculty, including Drs. Eric Mehiel and Rob McDonald, worked with inaugural Project Based Learning Institute (PBLI) members, Edwards AFB and Northrop Grumman, to develop specifications for several PBLI projects.

- The Boeing Company, Edwards AFB, JPL, Lockheed Martin, Northrop Grumman, and Raytheon provided generous support for the CubeSat Project and senior design courses.

- The department opened new design studios and a distance learning facility in Engineering IV, and got the new flight simulator up and running.

- The first group of ten students graduated from the Space Systems Master’s Program, the distance-learning program offered in collaboration with Lockheed Martin in Sunnyvale.

- The AERO Design Symposium was held in the new Engineering IV facilities with upwards of 100 industry attendees.

- Cal Poly participated in the 2007 Cessna Aircraft Company/Raytheon Missile Systems Student Design/Build/Fly competition in Tucson, AZ, along with teams from all over the U.S., Scotland and Turkey.

- Under the guidance of Dr. Rob McDonald, students Jennifer Chan, Bryan Morrissey and Chaz Morantz entered the Raytheon Strike Weapons Competition. The team was selected to compete at the finals held in Tucson, AZ.

- Students founded the Cal Poly Unmanned Aerial Systems club. The team goal is to build an autonomous aircraft that will guide itself back to earth after being carried aloft to 100,000 feet by weather balloon, and to photograph its journey home.

- AERO students contributed to multidisciplinary team projects, including the Society of Automotive Engineers (SAE) Formula car and the Human Powered Vehicle.
Program Highlights

**BMED/GENE**  
Biomedical & General Engineering

- Dr. Robert Crockett was named interim department chair.
- Dr. Robert Szlavik joined the department, bringing an expertise in neural-modeling.
- Undergraduate BME majors almost doubled to 143, and General Engineering enrollment was close to 200. Likewise, both biomedical and general engineering graduate programs grew.
- The strong master’s degree program, now with close to 60 students on-campus and off-site at St. Jude Medical, awarded eight diplomas to its first distance-learning enrollees.
- 2006-07 set the stage for tremendous departmental growth—it was the first year that every BME course in the catalogue was offered.
- In response to the increasing complexity of engineering and needs of industry, the department is developing more individualized courses of study in areas such as alternative energy sources, technology management, and engineering entrepreneurship.
- Meditech transitioned from a pilot program with St. Jude, to a biomedical engineering consortium with three industry partners: St. Jude, Edwards Life Sciences, and Advanced Bionics. Consortium members provide real world projects for multidisciplinary teams of students working on senior projects or master’s degree theses. The students undertake the applied research in an industrial environment replicated in on-campus departmental facilities.
- Student-committed Department-Based Academic Fees and the California Central Coast Research Partnership (C3RP) provided funds for a new tissue engineering lab. The facility enabled a project in which faculty and students from BME, Animal Sciences and the Dairy Products Technology Center are developing three-dimensional scaffolds to grow functional mammary epithelial cells.
- More industry leaders recruited BMED/GENE students for coops, internships and full-time employment, including St. Jude Medical, Abbott, Alcon Labs, Boston Scientific, Advanced Bionics, and Edwards Life Sciences.
- Lisa Wertenberg was named college-wide Outstanding Graduating Senior for Contributions to the College of Engineering.
- BME honors student and Team Tech co-director Emily Hakun was named an Outstanding Woman in Engineering & Technology.
- Administrative assistant Sondra Gorman received the 2007 CENG Outstanding Staff Award.
Program Highlights

CE/ENVE
Civil & Environmental Engineering

- Dr. Gregg Fiegel was named department chair.
- Drs. Tryg Lundquist and Sudeshna Mitra joined the department.
- Professor Emeritus Harold Cota received the Charles W. Gruber Association Leadership Award for service to the Air & Waste Management Association.
- Dr. Robb Moss and co-authors won the American Society of Civil Engineers (ASCE) Middlebrooks Award, the group’s highest honor for published work.
- Dr. Gregg Fiegel won the 2007 ASCE Region 9 “Faculty Advisor of the Year” for mentorship of Cal Poly’s Society of Civil Engineers.
- Kiewit Pacific sponsored the newly refurbished Kiewit Civil Engineering Materials Laboratory, enhancing CE’s project- and design-centered curriculum.
- The National Science Foundation awarded Cal Poly $190,500 to acquire an 110,000 lb. capacity materials testing machine, which will serve as the centerpiece of the department’s new Pavement and Advanced Materials Laboratory.
- New CE/ENVE labs opened in Engineering IV, including CAD-equipped Smart Rooms, the Advanced Computational Mechanics Lab, and the Advanced Water Resources Lab.
- The Society of Civil Engineers placed third in the 2007 Pacific Southwest Regional Conference (PSWRC), and Cal Poly’s Concrete Canoe paddled to 5th in the nation at the National Concrete Canoe Competition.
- Cal Poly Society of Environmental Engineers (SENVE) placed 2nd at the ASCE Water Treatment from Your Kitchen…and Beyond competition.
- SLOMobility won the “City of the Future” contest with a design for a transportation system for the Los Angeles of 2106.
- Engineers Without Borders (EWB) continued its work in Thailand and undertook two new projects. The group will redesign the water storage system for the community health clinic in Nueva Vida, Nicaragua, will also help redevelop two communities in Indonesia that remain devastated by the 2004 Indian Ocean tsunami.
- Rachel Severn was named college-wide Outstanding Graduating Senior for Contributions to the University, and Patricia Compas received the college-wide Outstanding Graduating Senior Award for Service to the Community.
- EWB co-founder Patricia Compas was named an Outstanding Woman in Engineering & Technology.
- ENVE senior Cash Fitzpatrick won a $1000 award for “Use of AERMOD and Google Earth,” a paper submitted for the 100th Anniversary Meeting of the Air and Waste Management Association.
- Shawna Von Stockhausen won a Best Paper presentation award from the Association of Engineering Geologists.
- The CE/ENVE Industrial Advisory Board presented its 2007 “Professional Advancement Awards” to Cash Fitzpatrick (Environmental) and Phaidra Rice (Civil).
CPE
Computer Engineering

• Dr. Al Liddicoat was appointed program director.

• Robotics expert Dr. Chris Clark (CSC/CPE) joined the faculty.

• Dr. Diana Franklin (CSC/CPE) received a five-year, $300,000 NSF Early Career Development (CAREER) Grant.

• Dr. Lynne Slivovsky was named Faculty Fellow for the California Campus Compact - Carnegie Foundation: Service-Learning for Political Engagement Program.

• The program enrolled 175 freshmen, bringing the total program enrollment close to 500.

• The CPE Capstone Lab was upgraded with funds provided by Bert and Candace Forbes.

• NSF funded a $50,000 research infrastructure proposal by Dr. Franklin for a 64-processor computer cluster that will benefit CPE, AERO CSC and ME.

• Drs. Al Liddicoat, Jianbiao Pan (IME), and James Harris (EE) received an NSF grant to enhance multidisciplinary, project-based learning in computer engineering.

• Faculty undertook sponsored projects with numerous industry and government partners, including the Jet Propulsion Lab, Caltrans, Raytheon, Cisco, and Google.

• CPE capstone projects were expanded to include multidisciplinary, sponsored, and service learning projects. For example, Dr. Lynne Slivovsky directed a multidisciplinary project facilitated by alumnus Kelly McClure (CPE ’89) and sponsored by Second Sight Medical Products to design a test device for use in the development of prosthetic retinas.

• CPE teams swept Roborodentia at Open House with 1st, 2nd, and 3rd place winners.

• Senior Duane Howard participated in a multidisciplinary team that represented North America at the Enhanced Safety of Vehicles International Collegiate Student Safety Technology Design Competition in Lyon, France.

• Dr. David Atkins, deputy program executive for NASA's Lunar Precursor Robotic Program, gave the keynote address at the CPE Banquet, where Kelly McClure (CPE ’9) received the Excellence in Computer Engineering Award.

• Outstanding EE students for 2007 included Jonathan Gandi (Academic Excellence), Derek Lockhart and Steven Cary (Excellence in Representing CPE), and David Arellano (Service to the Community).

• Students named Bryan Mealy “Outstanding CPE Lab Instructor,” Diana Franklin “Outstanding CPE Advisor,” and John Seng “Outstanding CPE Instructor.”

• James Harris, David Braun, and Lynne Slivovsky received CPE Directors Awards.

• Freshman Jeremy Riddell-Kaufman organized “400,000 Faces,” which had a national impact on raising awareness of the violence in Darfur.

• Administrative assistant Rhonda Walker received the CENG Outstanding Staff Award.

• CPE thanks faculty retirees Lew Hitchner, Marty Kaliski, Len Myers, and Dan Stearns for 76 combined years of service to Cal Poly.
Program Highlights

CSC/SE

Computer Science & Software Engineering

• Dr. Ignatios Vakalis joined the department as chair.
• New faculty included assistant professors Dr. John Bellardo, Dr. Chris Clark, and Dr. David Janzen.
• U.S. News & World Report named Cal Poly’s computer program second in the nation for public, largely undergraduate universities.
• Dr. Diana Franklin won a five-year, $300,000 NSF Early Career Development (CAREER) Grant.
• The department advanced curriculum development in new areas, including parallel programming, scientific visualization, computational science/modeling, and interactive entertainment. These represent growing fields of computing and capitalize on partnerships with industry, such as game development companies and DreamWorks.
• Dr. Chris Clark worked on developing a multidisciplinary master’s degree program in Robotics/Autonomous Systems.
• The department replaced and upgraded computer hardware, software, workstations and servers. In addition, Dr. Franklin received a $50,000 NSF grant to acquire a 64-processor “Ravel” computer cluster.
• Faculty received grants for applied research: Dr. Clark received funds for mapping of underwater tunnels and autonomous underwater robot systems; Dr. John Clements joined colleagues at multiple institutions on an $500,000 NSF project to redesign the introductory computer curriculum; Dr. Franz Kurfess was awarded an NSF grant for a multidisciplinary honors student project on human-robot interaction; and Dr. John Seng obtained funds from Raytheon and Teradyne for RoboRodentia, the IEEE-CS club project.
• CSC partnered with Intuit on the University Collaboration Project in which students developed a payroll web application for company employees.
• A team of software and computer engineering students, including Alexandre Mattos, Aaron Favinger, Kyle Haughey, Ryan Murphy and Tawa White, was one of three winners of grants from Innovation Quest for their project, “Brew KVM – Game Porting from J2ME to Brew Cellular Phones.”
• CSC contributed to the successful launch of Cal Poly CubeSats into orbit with student-written software developed under the direction of Dr. Clark Turner.
• Graduate student Christine Le was named an Outstanding Woman in Engineering & Technology. She served as president of the Association for Computing Machinery and social coordinator for the Vietnamese Student Association.
EE
Electrical Engineering

- Dr. Art MacCarley was named chair, replacing Mike Cirovic, who returned to full-time teaching after serving in that position for six years.


- Enrollment in the EE master’s degree program increased to more than 50, nearly 10% of the overall department enrollment. Forty-three of those graduate students were Joint BS/MS Honors Program candidates.

- Dr. Lynne Slivovsky was named a Faculty Fellow in Service Learning for Political Engagement, a program sponsored by the California Campus Compact and the Carnegie Foundation.

- In her first year as the Hood Endowed Professor, Dr. Slivovsky conducted technical research in embedded systems and haptic (touch-based) interfaces. She also incorporated service learning into her capstone design class and required K-12 outreach from all of her senior project students.

- Dr. Xiaozheng Zhang received a $10,000 Wang Faculty Fellowship, which will enable her international collaboration with Shanghai Jiao Tong University.

- EE professors Drs. Al Liddicoat and James Harris, along with Dr. Jianbiao Pan (IME), received a $200,000 NSF grant to enhance multidisciplinary, project-based learning in the computer engineering curriculum.

- Lecturer Silvia Liddicoat served on the Steering Committee for STEMCAP, the collaborative action plan to boost K-University participation in science, technology, engineering and math. STEMCAP is supported by a WIRED (Workforce Innovation in Regional Economic Development) grant from the U.S. Department of Labor.

- The department developed a multidiscipline, team approach to senior projects and launched a successful pilot program for electrical/mechanical engineering joint projects. Some of these projects included a Light Weight Portable X-Ray System, a Human Bike Power Generator, Optical Vector Network Analysis, and a Repetition Counter for Exercise Systems.

- EE students elected to use their Department-Based Academic Fees to provide additional course offerings.

- Erin Matsumoto, a 4 + 1, B.A./M.A. student was named an Outstanding Woman in Engineering & Technology by the Society of Women Engineers. She serves as a teaching associate, college ambassador, chair of the EE Student Fee Allocation Committee and board member of the IEEE.

- EE student Jessica Kiefer received the $10,000 Anita Borg Scholarship from Google in recognition of her efforts to inspire young women to consider careers in engineering.
Program Highlights

IME
Industrial and Manufacturing Engineering

• *U.S. News & World Report* named Cal Poly’s industrial and manufacturing engineering program first in the nation for undergraduate universities.

• Dr. Jose Macedo received a Fulbright Fellowship to undertake projects at the Technological University of Panama.

• Dr. Sema Alptekin and Dean Phil Bailey (College of Science & Mathematics) received a $500,000 NSF grant for project-based, interdisciplinary learning. Throughout the four-year grant, 22 NSF-funded scholarships will be awarded annually to engineering and science and mathematics Honors Program students.

• Dr. Jianbiao Pan, along with EE colleagues Albert Liddicoat and James Harris, received a $200,000 NSF grant to develop project-based learning for the computer engineering curriculum at Cal Poly.

• Dr. Dan Waldorf received a $100,000 Small Business Innovative Research NSF grant with industry partner Scott Liu of Genius Metals to work on the design and testing of carbide cutting tools with alternative binder metals.

• With the help of the Manufacturing Consortium, the department acquired a $40,000 coordinate measuring machine programmable for automated inspection.

• Selected as one of the country’s best young engineers, Dr. Pan was invited to participate in the National Academy of Engineering’s Frontiers of Engineering symposium. He also received the 2007 Emerald Literati Network Award for the most outstanding paper published in a nationally respected journal.

• PolyHouse, the annual multidisciplinary service-learning project undertaken by Dr. Roya Javadpour’s project management class, served a disabled community member while giving students hands-on experience in all aspects of planning and managing a technical project. The students raised more than $50,000 dollars for home improvements.

• Students in Liz Schlemer’s IE class developed a brick press to address critical housing problems in Zambia—the course included a visit from Zambian ambassador, Inonge Mbilikusita-Lewanika. Dr. Unny Menon, IE professor and interim assistant vice provost of academic programs, is helping the students take the product from prototype to reality.

• Lecturer Rod Hoadley was issued a patent for his Dual-Level Bicycle Rack designed with the help of IME students.

• Dr. Roya Javadpour and the Persian Students Club facilitated a university-wide presentation by 2003 Nobel Peace Prize recipient Shirin Ebadi.

• Edward Clements won Best Student Poster at the 9th International Symposium on Microelectronics with “Design of a High Speed Data Acquisition System for Lead Free Solder Joint Drop Testing.”

• Senior Jessica Eggleston received a Toyota Material Handling Honor Scholarship. She holds the fourth all-time career scoring record in Cal Poly Women’s Basketball, and was named Scholar-Athlete of the Year.

• Susan Moorey Johnson (IE ’78) was named College of Engineering’s 2006 Honored Alum.
MATE Materials Engineering

- Dr. Kathy Chen was appointed department chair.
- Dr. Trevor Harding and post-doctoral scholar Dr. William Hughes joined the department.
- Dr. Richard Savage received the Raytheon Excellence in Teaching and Applied Research Award.
- Dr. Linda Vanasupa and MATE colleagues launched Educating Global Engineers (EdGE) with a five-year commitment by the College of Engineering to design learning experiences that enable engineers to serve society through innovation.
- Facilities opened in Engineering IV, including a modernized metallography lab, a state-of-the-art classroom designed to support team-based learning, and a projects lab to enable curricular project-based learning.
- A service learning emphasis was incorporated into the freshman sequence. As a result, students came away with a better understanding of the practical world of engineering and the freshman student retention rate increased.
- NSF funded a four-year investigation by Dr. Trevor Harding and colleagues at the University of Michigan and Lawrence Technological University on the ethical development of engineering undergraduates.
- Dr. Hughes received a grant from Cal Poly’s Office of Research & Graduate Programs to acquire a research-grade Atomic Force Microscope, enhancing the university’s materials characterization capability.
- MATE Outreach Ambassadors were established and MATE students volunteered at numerous outreach events; in fact, approximately 20% of MATE students participated in K-12 outreach during National Engineers Week.
- Graduate student Brian Wright won the Best Student Poster Award at the 39th International Symposium on Microelectronics for “Assembly and Characterization of Surface Mount Components on Silicon Substrate.”

Program Highlights

- Amanda Runciman placed 2nd in the CSU Student Research Competition in the graduate engineering and computer science division for “The Effect of Hydrogen on the Atomic Structure and Behavior in Nickel Titanium Shape Memory Alloys.”
- MATE students were recognized with scholarship awards: Senior Nicholas Vickers was awarded a scholarship from the Society of Vacuum Coaters Foundation, graduate student Katherine Miyashiro received the M.J. Schiff Fellowship Award sponsored by the National Association of Corrosion Engineers and Intel, graduate student Michael Leonard received a scholarship from SAMPE/ASM, the Materials Professional Societies, and undergrad Casey Weathers received a USA Snowboard Association scholarship.
Program Highlights

ME
Mechanical Engineering

• Dr. Brian Self, Dr. Patrick Lemieux and Dr. Tom Mase joined the department.
• Dr. Joe Mello won the Northrop Grumman Excellence in Teaching Award.
• Dr. Louis Rosenberg was honored as one of San Luis Obispo’s “Top 20 Under 40.”
• Visiting professors included Wolfram Englberger from Munich University of Applied Sciences and Jim Tobias, founder of a chip emulation program. Tobias developed a course on building systems modeling using the Cal Poly Solar House.
• Dr. Patrick Lemieux transformed the IC Engines Lab, and Drs. Bill Murray and John Ridgely revised and updated the mechatronics curriculum.
• Dr. Jim Widmann initiated the biannual ME Projects Expo, which showcased 70 student projects, many of which were sponsored by industry.
• ME faculty undertook research on a wide variety of subjects, including ethanol testing, advanced golf technologies, cartilage modeling, an energy efficient juice machine, bent rotor shaft modeling, student learning outcomes, engineering education experiments, vehicle pre-crash detection, robotic pattern recognition, advanced rocket nozzle thrust vectoring, and more.
• The Flexible Fastener became available for licensing—the patented, bendable bolt was designed and built by ME students under the direction of Dr. Saeed Niku.
• The Cal Poly Supermileage Team won the U.S. Shell Eco-Car Challenge with 1,902 miles per gallon.
• The Cal Poly Human Powered Vehicle Club (HPV) took 1st in female sprints, 1st in mixed sprints, 3rd in design, and 2nd place overall at the 2007 American Society of Mechanical Engineers (ASME) Human Powered Vehicle Competition.
• Cal Poly ASME was the nation’s top student chapter, winning the Ingersoll-Rand Award for the 10th straight year. The group also placed 2nd in the Student Design Competition for presenting a human-powered water distillation system.
• SAE International selected the Cal Poly Society of Automotive Engineers (SAE) as an “Outstanding Collegiate Branch” for 2005-2006.
• Drs. Charles Birdsong and Peter Schuster led a multidisciplinary student design team that represented North America at the International Collegiate Student Safety Technology Design Competition in Lyon, France.
• The Cal Poly Robotics Club won the RoboMagellan Competition at the International RoboGames with Spybot, an autonomous navigation vehicle.
• Kyle Cormany was the college-wide Outstanding Graduating Senior for Academic Excellence.
• Students David Ulrich, Nick Wile and Ryan Johnson traveled to Korea to take part in a design exhibition sponsored by Seoul National University of Technology.
• ME senior Todd Maki served as Associated Students Inc. (ASI) president.
• Rachel Santee was named an Outstanding Woman in Engineering & Technology.
Program Highlights

**MEP**
Multicultural Engineering

- MEP served over 300 Cal Poly students and 400 pre-college students from the Central Coast area.

- Silvia Liddicoat joined the program as the pre-college coordinator and recruiter/counselor.

- MEP director David Cantu, was recruited to serve as the campus coordinator for PIQE, the Parent Institute for Quality Education, which is partnering with Cal Poly and the CSU to help parents support their children’s educational efforts in order to set them on the path to college.

- With an 89% retention rate for first-year students, MEP hit a three-year average high comparable to the retention rate for the college as a whole.

- Cal Poly’s MEP program received $160,000 from the U.C. Office of the President to offer the pre-college MESA Schools Program to low-income students and additional funds to host the 2007 MESA Day event.

- Cal Poly hosted the Regional MESA Day, which brought more than 450 students from 23 middle and 20 high schools to campus. More than 70 Cal Poly staff, faculty and student volunteers facilitated the event.

- The program partnered with Lockheed Martin on outreach at Santa Maria High School.

- Corporate sponsored scholarships totaling more than $75,000 were awarded to approximately 30 students at the MEP Corporate Social and Academic Recognition Banquet. The event was made possible through generous contributions to MEP from Boeing, ChevronTexaco, Frito-Lay, Hewlett-Packard, Lockheed Martin, Northrop Grumman, PG&E, Raytheon, and Xerox.

- Along with other regional universities, Cal Poly participated in a two-day MEP Leadership Workshop hosted by Northrop Grumman, Lockheed Martin, Disney Imagineering, and Frito Lay. Attendees included executive officers of campus professional societies, including SHPE, the Society of Black Engineers and Scientists (SBES), the American Indian Society of Engineers & Scientists (AISES), and the Society of Women Engineers (SWE), as well as corporate representatives.

- Over 31 SHPE members participated in the NTCC conference in Denver, and SBES sent fifteen members to the National Society of Black Engineers (NSBE) conference in Columbus, OH.

- Five Cal Poly SBES members are active with the NSBE regional board—two were elected and three were appointed to the regional posts.
Program Highlights

**WEP**
Women’s Engineering

- For the fifth straight year, Cal Poly Society of Women Engineers (SWE) was named the nation’s best “large” student section. Cal Poly also won the Membership Program Award, Best Collegiate Membership Recruitment Campaign, Collegiate Upgrade Award, Best Collegiate Section Website, Boeing Multicultural Program Award, and Best Region Collegiate Newsletter Award.

- SWE Team Tech took second in the nation for the design of a jet engine inspection system, a project sponsored by Northrop Grumman.

- With 464 members, Cal Poly SWE remained the largest student section in the nation.

- Helene Finger, WEP director for nearly a decade, was awarded a Doctoral Scholars Fellowship by UC Santa Barbara and a National Science Foundation Graduate Research Fellowship.

- Evening With Industry (EWI) featured a keynote speech by Violettee Brown, CEO of the Prophecy Consulting Group, and the awarding of $41,500 in scholarships.

- In cooperation with Hewlett-Packard, SWE named five Outstanding Women in Engineering and Technology, including Christine Le, master’s student in computer science; Emily Hakun, honors student in biomedical engineering; Rachel Santee, honors student in mechanical engineering; Patricia Compas, civil engineering senior; and Erin Matsumoto, a 4 + 1, B.A./M.A. student in electrical engineering.

- Education efforts by SWE included Building An Engineer attended by 240 students and parents, 4th Grade Outreach during National Engineers Week, and Girl Scout Engineering Day, in which troops earned “Discovering Technology” badges.

- Cisco, Google, and Raytheon provided funds to launch host Engineering Days at Cal Poly. WEP/SWE initiated the Summer 2007 “day camp” to introduce engineering to local students.

- SWE officer Kate Van Dellen helped organize the Minority Leadership Training Seminar hosted by Lockheed Martin and Northrop Grumman and attended by members of SWE, the American Indian Society of Engineers & Scientists (AISES), the Society of Black Engineers & Scientists (SBES), and the Society of Hispanic Professional Engineers (SHPE).

- Cal Poly’s Joint Membership Program took off: SWE partnered with SHPE, AISES, and NSBE to offer a 50% discount for joint membership dues. SWE also created a diversity brochure. Cal Poly’s pilot program spurred similar efforts by the National SWE. In addition, numerous joint events resulted from the diversity partnership efforts, including social events, outreach activities, and seven industry tours.
Engineering students and faculty have a new place to meet, collaborate, and dream. Completed in 2007, the Engineering Plaza is bordered by the Bonderson Projects Center, Engineering IV, and the Advanced Technology Laboratories.

Much of the Plaza costs were donated by you, our friends and alumni. The multidisciplinary activity and energy apparent in the new engineering hub show that your generosity provides a valuable and beautiful resource to the College of Engineering.
Kathleen Holmgren, Co-chair of the Dean’s Advisory Council, leans against with newly completed Engineering IV Building. The Engineering Plaza and the Bonderson Projects Building can be seen in the background.
A Message from Kathleen Holmgren, Co-Chair

When I arrived on campus as a freshman in 1976, I could not know how large a part Cal Poly would play in my life. Not only would it help open the doors to a wonderfully challenging and fulfilling career, but I would also meet my future husband, Robert, a fellow major in industrial engineering. Years later, my daughter Allison enrolled and is now an IE junior, and my son Tom will be a freshman this fall.

Why has my family made Cal Poly a legacy? Because we sincerely believe it offers the best well-rounded and comprehensive engineering education possible. We also know Cal Poly faculty have a passion for teaching, and we trust the vision of the college to produce engineers who can tackle the challenges and meet the needs of society.

Over the past 27 years, my appreciation for Cal Poly has increased and I’ve become more and more active in helping advance the College of Engineering. In that time, I have seen Cal Poly grow from a totally State-dependent institution to a world-class university that must raise millions of dollars.

As one looks around Cal Poly’s engineering campus, generosity is evident. Two new buildings have just been completed in the Engineering Plaza, one of which was entirely funded by Paul and Sandi Bonderson. In addition, the Advanced Technologies Laboratory (ATL) is outfitted with corporate-funded labs, and all departments have facilities supported by our industry partners. Just this year, donors Dale Nix and Don Heye established new student scholarships; in fact, privately-funded scholarship support increased by more than 70% in 2006-2007.

Yet, our challenge persists. To fulfill our vision as the nation’s premiere provider of engineers, we need to finish Engineering IV, equip the Bonderson Center, support faculty, provide scholarships, and develop the programs and curriculum that keep the college on the cutting edge. These costs, along with funding for student projects and organizations—which make Cal Poly unique as an educator—are not funded by the State of California.

In this annual report, you’ll read the list of individuals and organizations that have answered the call. You have helped Cal Poly stay on top. To each and every one of you, thank you. Please know that a gift of any size will directly benefit Cal Poly students.

Kathleen Holmgren (IE ’80), Co-chair
Dean’s Advisory Council

To discuss how to become involved with or support the College of Engineering, call Joe Donahoo or Donna Aiken, 805-756-6870 or 805-756-6601.
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<td>The Cummings Family Trust</td>
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Matching Companies

The following companies generously match the gifts to Cal Poly College of Engineering made by their employees. These companies are listed in descending order of dollars matched:

Northrop Grumman Corporation
Lockheed Martin Corporation
The Boeing Company
Chevron Corporation
Raytheon Company
Microsoft Corporation
Xerox Corporation
Pacific Gas and Electric Company
Intel Corporation
Cisco Systems Inc
Edison International
National Semiconductor
Medtronic Inc
Qualcomm Inc
General Electric Company
Rockwell Automation
Plains Exploration & Production Company
Pritonix
Bechtel Group
Wells Fargo & Company
Honeywell International, Inc.
BAE Systems North America
W.W. Grainger Inc
Genentech Inc
Capital One Services Inc
Emerson Electric Company
Juniper Networks
The PIMCO Foundation

Rockwell Collins
State Farm Companies Foundation
Eli Lilly and Company
Philips Electronics North America Corp
Accenture Inc
Oracle Corporation
Sun Microsystems Inc
Spanco Inc
Washington Group International
BP America, Inc.
Deutsche Bank Americas Foundation
Paccar Inc
Parker Hannifin Corporation
Pepsico Inc
PricewaterhouseCoopers LLP
Seagate Technology
Texas Instruments Inc
Alexander & Baldwin
AT&T Corporation
Ball Aerospace & Technologies Inc
GenCorp Inc
Lam Research Corporation
Tellabs

American Standard Foundation
Intech Machine Fabrication
Toyota Motor North America Inc.
Vodafone
Cadence Design Systems Inc
Fair Isaac and Company Inc
Saint Jude Medical Foundation
FMC Technologies Inc
Blue Shield of California
Adobe Systems Incorporated
Amgen Inc
The Clorox Company
Google Inc

HR Textron Inc
Johnson Controls Inc
Kimberly-Clark Corporation
Logitech
Nokia Inc
Novellus Systems Inc
QAD Inc
Science Applications International Corp
Silicon Laboratories
Stirling Enterprises LLC
Venoco Inc
Verizon Communications Inc
Gap Inc
MOOG Inc

3M Company
Dolby Laboratories Inc
Johnson & Johnson Family of Companies
Micron Technology, Inc.
Office Depot
United Parcel Service of America Inc
Pfizer Inc
Hospira Inc

If you would like to learn more about corporate matching programs, or determine if your employer would match your gift to Cal Poly, please visit: http://www.giving.calpoly.edu/matching
Individual Honor Roll

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Gary & Judy Bloom
Paul & Sandra Banderson
Richard & Julie Hood
Dale Nix
B. Terry & Carol Reinhold
Mary Reinhold
William & Cheryl Swanson

$50,000 to 99,999
Stephen Bechtel Jr.
Frank & Laun Filling

$25,000 to 49,999
Anonymous Donor
Charles Dana Jr.
John Wingate Jr.

$10,000 to 24,999
Anonymous Donor
Lori & Michael Bickel
Estate of Constant Chrones
Martin & Mary Engler
Donald Heikkenin
Donald & Paula Heye
Estate of Melvin Holznagel
Ted & Sharon Meheiser
James Regan
Elizabeth Thoburn
Mrs. Keith Uncapher
Paul & Virginia Wright

$5,000 to 9,999
K. N. & Meera Balasubramanian
Robert & Julie Bilbro
Patricia Burnett
George & Linda Cathey
Diane & Stephen Ciesinski
Ray Elm & Diana Gold
M. Joyce Hoffman
Jamie & John Krakowski
Richard & Patricia Melshemer
George & Tony Murray
W. Sheldon & Carol Skiff
Bonnie & Ronald Swenson
John & Roberta Ward
Edward & Marjane Whitney
Robert Wenderler Jr.
Gerald & Sheila Wroblewski
Robert & Kathleen Wulf
James & Elizabeth Young

$2,000 to 4,999
Charles & Karen Adamson
Tracy Anderson
Mary Ann Bain
Daniel & Diane Benjamin
George Blum Jr.
Wayne Brincle
Hal & Judy Cota
Jonathan Criddle
Ronald Dabbah
Beth Dotts
William Evans
Bert & Candace Forbes
Edward & Eileen Gaiser
Kathleen & Robert Holmgren
Mary King
Patricia & David Kutzmann
Ken Lindberg
Jeffrey & Renea Marrs
Kelly McClure
Michael McKay
Kathy & Laurence Mitchell
Gary & Florence Motoyama
John Nakata
Neal & Diane Openshaw
John & Patricia Pappas
Charles & Candiss Partridge
Steven & Carol Pearson
Dick & Darlene Polder
Gregory & Patricia Raleigh
Robert & Kristin Reidy
Sherry Samiento
Rolland & Isabel Sears
Deveney & Lawrence Totten
Cindy & John Wallace
Donald & Jean Williams
Eric & Yolanda Wong

$1,000 to 1,999
Rob & Grete Burgoo
Sarah & Stephen Bruno
Gregg & Dawn Fiegel
Albert & Ruth Yackle
David Pedersen
Jacqueline Buratovich
Bambi Cask & Stephen Patterson
Steven Deas
Jon & Tamara Krause
Charan Langton & Michael Levin
Diane & Gary Luka
Sam McFadden
Joyce & Robert Patvin
Darwin & Jeanette Sainz
Carl & Gwen Nall
Anonymous Donor
Gretchen & Howell Poe
Richard Tapole
Dana Anderson
Richard & Judith Ayres
Michael & Marion Quinn
Paul & Alice Armstrong
Richard O'Neill & Kirsten Zeydel
Glade & Sally Bacon
Joseph & Jeannie Hoff
Steve Jankowski
Michael Hughes
Isaac Zabar
Patrick & Amy Rumsey
Michael Adams
Anonymous Donor
Anonymous Donor
Susan Armstrong & Keith Macullor
Robert Bein
Lou & Patty Bellando
Larry Bergman
Thomas Black
Robert Blair
Mark Bright
Richard & Justine Brockett
Cheryl & William Brummitt
Robert Carli & Armi Kim
Carl & Sandra Carter
Sherman Chan
Douglas & Lorraine Christensen
J. Christopher Coleman
James & Joan Campas
Jerry Counts
Paul Davis & Kris Solem
D. Jeanne & Richard Davis
Gregory & Miranda Dexter
Paul Duckworth
Charles Duvall
John & Robin Ellis
Michael Eroratabere
Marie-Jeanne & Lance Forbes
Gregory & Lisa French
Richard Fitch
Patricia Gathier
Paul Goodholm
Susan Graham & Bruce Mengler
Marianne Hill
John Hughes
Herman & Sandy Hui
Gordon Judd
Lori Juma
Urushima Krummel
Maxine Littlejohn
Frank Maciel
Ralph Manlili
Donald & Laura Midkiff
Glen Mills
Ka Miu
Tim & Laura Morse
Phillip Morssing
Kendall Murakami
Michael & Joy Norgard
Steven Nunamaker
Dennis Riddle
Kevin & Marti Rimbault
Beate & Tim Sass
Stanley & Sheryl Sass
Kenneth Sherman
Elizabeth & Warren Shimada
Lou & Patricia Shrinkle
Audrey & Denis Silber
Tomas Sviat
Timothy & Janet Thomas
Wayne Thomas
James & Kathleen Thomson
John Vigglietta
Diane & John Villa
Elwood Villa
Stephen & Lori Ward
Bransby Whiston
Albert Winn
William & Yan Yoo

$500 to 999
Robert & Elizabeth Acaba
Robert Addis & Kristen Ivari
David & Jerriam Alexander
Marc & Bridget Allard
Manuel Alvarez
Kenneth & Kimberly Anderson
Paul & Maureen Apple
Harry Banks III
John Bates & Carolyn Corvi
Donald & Teryl Beach
Michelle & Theodore Becker
S. Keith & Kathleen Belmont
Steven Bencetto & Judith Gardiner
Jean Biberdorf
Charles Blar
Monica Bockman
Gene & Diane Borg
Ward Brady
Donald & Donna Brand
David Brandt
Barry & Jeanne Bruins
Keith Brummitt
Edward Burnett
Richard & Deanna Buschini
Kathleen & Thomas Butler
Jeffrey Byard
R. David Cantu & Laurie Button-Cantu
Donald & Christine Carlson
Robert & Jeanne Cathaway
Charles Cave & Claudia Lopez Cave
John & Irene Chan
Kwok & Lynda Chan
Kenneth Clark
David & Cecilia Cole
Jonathan Craig
Salvatore Cristofano & Laura Gasper
Andrew Crown
Teresa & William Cste
Shandor & Heather Daroczi
Steven & Kathleen Davis
John & Barbara Dawson
Robin & Steven DeJarnett
Carl Dietrich Jr.
Steven Dittmann
Lynda Elliott
William Filbert
Gregory Fisher
Maureen & William Forgeng
Karl & Jennifer Freeman
Kiyoto & Joy Fujita
Dennis Gagne
Robert Gardella
James & Michelle Gharib
Paul Gibson
Richard & Nancy Gilbert
Jon Glommen
Marc Greenberg
Jens Hansen
James Harris & Anna Frazer
Juan Higareda
Craig & Sandra Hill
Michael & Marion Hmeler
Douglas & Michelle Holms
James Huffman
John & Norma Humphries
Mark & Debra Huntley
Anthony Iwanjka
Randell & Kathryn Iwasaki
Robert & Marilyn Jake
Frederick Jen
Gordon & Mona Jennings
Richard Jewett
Gregory Jokela
David Kan
Koji & Susan Kasuyama
Michael & Sally Kennedy
George & Patricia Kirkpatrick

An alumnus establishes a scholarship to see students through

Don Heye believes in following through on a commitment. Not only has he offered scholarships that are renewable for up to four years—a first for the College of Engineering—but he is also personally committed to helping select the recipients of those scholarships.

This year, the 1958 aerospace engineering alum established the Marvin Arnold & Irene Jaquetta Heye Scholarships, which will provide up to $17,500 per year to two Cal Poly engineering students. Named for Heye’s parents, the scholarships are administered through the San Diego Foundation.

“I’m very proud of Cal Poly, and because I’ve reached a time in my life when I can provide help to others, I thought the scholarships were a good idea. I especially hope that the grants will encourage individuals to attend Cal Poly and become engineers.

“So, I tried to find students who are dedicated to the Cal Poly approach. We had about 60 applicants and I reviewed them all and visited the two awardees. They were both selected by several prominent universities but chose Cal Poly because of its super reputation, and they are very enthusiastic about Aerospace Engineering.

“Cal Poly’s reputation has been built on engineers who work in the field in hands-on engineering, people who do get things done. I have high hopes for these two young people.”

Don Heye’s own impact on industry has been considerable, starting with his first job at Ryan Aeronautical, where he did early testing for “short take-off,” “vertical take-off,” and unmanned aircraft. Along the way and at various companies, he helped develop gas turbines, components for the Saturn rocket engines and lunar landing module, and other systems for aerospace vehicles. In 1968, he founded Hyspan Precision Products Inc. Hyspan is a global manufacturer of industrial products operating four plants in the U.S. and one in Mexico.
Scholarship Recipient

Alex Chin
Aerospace Engineering
National Science Foundation Scholarship

“I became sold on Cal Poly when I visited Open House and found all the students so knowledgeable and happy to be here. I was especially impressed with the CubeSat program. Now I’m a CubeSat program manager—it was surreal the night our Polysats were launched into orbit from Kazakhstan this spring. We didn’t have a visual link-up, but we sat listening by the phone with our fingers crossed and everyone just erupted into cheers when the CubeSats made orbit. It was so great to realize all the hard work paid off.

“Cal Poly has met my expectations and then some. I really appreciate the opportunities it has given me, including involvement in CubeSat. And thanks to Dr. Sema Alptekin and the Honors Program, I received an NSF grant to study algorithms for low-powered satellites.”
Andrew Moya
Dan Muhlfelder
Lee & Janann Nakamura
Darnell Naruto
Daniel & Deborah Need
Melvin Nelson
David Newarce Jr.
David & Sharon Newman
Brian & Susyn Normington
David Norris
Jeffrey Okamoto
Glenn Oliveria
Dorothy & Patrick Ota
Lee Owens
Connie & Mark Paine
Robert Parker
Armont Pawlowski
Allen & Martha Paxton
Salud Perez
Julie Petersen
Kevin & Anastasia Petersen
Dennis & Sherry Phillips
James & Toni Phillips
Harry & Marjorie Pursel
Walter Pyle & Gloria Randinakota
Alan & Millie Quan
Everett Reed
Michael & Theresa Regan
Michelle Remmes & Anthony Valdez
Rex Ridenoure
Christopher & Julie Ridley
Gail & Steven Ristow
Glenn Ritter
Eugene Robinson
Frank Rollo
Jesse Rond
Frank Rosenthal
Kevin & Sandra Ryan
John & Kristina Sakamoto
Richard Scheff
Richard Schmidt
John & Paula School
Joseph Schreiner
Barbara & Donald Schremp
Joan & John Sciacca
Richard Shawlee
Charles Sheider
William & Donna Shepard
Greg Shields
Robert & Debra Simmons
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Kenneth Smyth
Thomas Solomon
Dwight & Joy Somersett
Edward & Elizabeth Song
Fereydoun & Rhonda Soofer
William & Michele Sooy
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Robert Street
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Janet Stucke
Alexandra & Stephen Swanson
John Sweeney & Stacey Stevens
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Andrew & Elizabeth Tait
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Michikazu & Signe Tao
Michael & Jeannette Thatcher
Dale & Sylvia Thompson
David & Ruth Thompson
Aimee Toth
William & Patricia Tsai
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Shawna Von Stockhausen
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Kimberly & Darren Vorath
Phuong Vu
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Lewis Wakelyn
John & Marion Walker
Heather Welden
Andrew & Susan West
Jeffrey & Victoria Whitaker
Melissa Woo
Tony Woo
Keith Wood
Hiroko & Masa Yanagihara
Philip Yee
Walter Ying
Lisa Zavieh & David Martin
Andrea Ziccarelli
Larry & Florence Zysman

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Mary & Sidney Abbott
Claire Aboudara
Michael Acosta
Cheryl Ades Anspach & Donald Anspach
Joseph Aguilar
Fernando & Linda Aguirre
Steven Ainsworth
Stephen Albright
Philip Allen Jr.
Pedro Alvarez Jr.
Sunil Amanna
Stanley Ames
Timothy Ames
Douglas & Kathleen Anberg
Stanley Andres
Connad & Marjory Anderson
Robert & Susan Andrews
Jack & Debbie Angel
Michael & Vivian Anthony
Kristin Anzaldo-Bohi & Michael Bohi
James & Deanna Arthur
Keith Askew
Leslie & Brian Ault
Michael Awakian
Michael & Jane Avella
Scott Avery & Emily Malcolm-Avery
Luis Avila
Gordon & Mildred Bader
Richard & Florence Baerens
Mark Bailey
Daniel & Christine Bakhodin
Wendy Bales
James & Ann Balquist
Richard & Karen Barbier
Valerie Barker
Charles Barnes
Donald Barth
Todd Barth
Robert & Allison Basanese
Douglas Basch

Bud Beacham
David & Valerie Beaud
Ann & William Beaton
Alden Bedard
Louis & Janet Behrens
George & Dorothy Benford
Nancy & Robert Benich
Carrie & Kalman Benuska
Hoag Berthelsen
Russel Bertholf
Louis & Kathy Bertolini
John Besisse
Roy & Penelope Bethel
John Bettendorff
Randall Beuth
Dennis Bevis & Kristi Wells-Bevis
Mano & Rebecca Bianchi
Elaine & Robert Bigley
Linman Bjorken
Chuck & Kathy Black
Robert & Sandra Black
George Blair
James & Alice Blais
Donald Bodley
Gary Boehm
Holly & Christopher Bolling
Evelyn & John Bolton
Sheila & Robert Bonstead
John Borders
Cynthia & John Bowen
Benjamin & Arlene Boychuk
Donor: Ruth Renihan

She “put her husband through” Cal Poly and has now established a permanent legacy to honor him.

“We arrived at Cal Poly in 1946 and lived in a little trailer on campus. I worked in the Poultry Department, selling eggs and fryers, and keeping the books on projects. We were very happy.”

Ruth Renihan’s husband, Lawrence, was one of the many World War II veterans who attended Cal Poly on the G.I. Bill. When he graduated in 1950 he received a degree in electronic engineering, while Ruth was awarded a “P.H.T.” or “Putting Hubby Through” certificate. It was Cal Poly’s way, in those days, of honoring the women who played a vital role in supporting their student-husbands.

After leaving San Luis Obispo, Larry found a job with Hewlett-Packard, where he spent his entire career. Quite possibly the very first Cal Poly graduate to join HP, Larry Renihan paved the way for almost 1,000 alumni who have worked for the company and its spin-off, Agilent.

Throughout their years in the Bay Area and especially after retirement to Santa Barbara, the Renihans continued their connection to Cal Poly, coming back many times for reunions and Homecoming.

“We made life-long, lasting friendships there, and even though Larry is gone, I still enjoy making the trip,” says Ruth.

“I think it’s wonderful how the university has grown; I’m so impressed with what it’s become. I’ve known a lot of young people who have attended and gone on to successful careers; in fact, I’ve helped two go through, one of whom is an elementary teacher and the other an electronic engineer, like Larry. I hope my gift helps more students follow his footsteps.”
Douglas & Bobbie Boyer
Francis & Anne Brady
Sarah & Scott Brandenburg
Gary Bremer
Bruce & Marjorie Brenerman
George Brennan
Karen & Dan Bresley
Timothy Brock
Daniel & Emma Brown
Mark & Lisa Brown
William & Susan Brown
Daniel Brush
David Brunelle
Randy & Judy Brunelle
Michael & Sharyn Bruno
Rebecca & Salvatore Bruno
Gregory & Vickie Bryant
Mark Bryant
Daniel & Susan Buller
Douglas & Ann Burns
Bruce Burnworth
Junious & Keilani Burrage
Jon & Linda Burtt
Christian Burtt
June & Robert Bury
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David Clark & Kevin Wood
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Peter D’Aquanni
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Steven Day & Lesley Kittinger
Thomas de Serra
Duane & June De Vincenzi
Michele Dedic
Eric & Lisa Deely
Barbara Delamare-Cremer
Nicholas Dellamaggiore & Catherine Miller
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Richard & Patricia Demers
Barry Dent
Betty & James Deshon
Mark Desoto
James Detmers
Upinder & Praveen Dhinsa
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David Dindo
Johnny & Jimmie Ruth Dirks
David & Barbara Dixon
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Jeffrey Doar & Martha Donbroski-Doar
Douglas & Linda Dodds
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Bret Dooley
David & Lesk Downey
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Eric Ducatko & Denise Swanson-Dukatz
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Jack Eagan Jr.
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Susan & Paul Ehmann
Teri Elifink
Michael Elliott
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Donald Erickson
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David & Kathleen Esposto
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Aaron Feathers
Tedman Fehlhaber
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Dennis Fernandez
Jayme & Jack Fields
Raymond Fischer & Louise Perry
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Fred Fong
Douglas & Sandra Forquer
William & Julie Forsythe
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Malia Francisco
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Nancy Friedlander-Hosken & John Hosken
Linda Frost
Susan Fudurich
Edna & Goro Fujisawa
James Fukimoto
Robert Fulton & Susan Morse
Thomas & Ken Fung
Michio Furukawa
George Futas
Louis Gabriel
Mary Gaddoos
Malcolm & Leola Gaddis
Laurie & Shane Gallimore
Donna Gara
Scott & Joel Gardner
Harold & Myrtle Garfield
Carol & Jon Garlepp
Jeremiah Garretson II
Katherine Garrison & David Norris
Allan Garton
Grahame Gearing
Louis & Vicki Geiger
Paul Giannini
Douglas & Cheryl Gibson
Sandra & Scott Gibson
Dennis & Julianne Gilles
Nancy Stubbings Gilmore
Bart Giordano
Maree Givens
Catherine Glauber & Walden Woo
Kaila Glesky
Ray & Robin Goebel
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Tom Gondo
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Roberto Gonzalez
Ronald Goodman
Kimberly & Walter Goodwater
Alexander & Paula Goosf
Lance Gorman & Linna Thomas
Glenn & Stacy Goto
Joseph Gouveia Jr.
Leigh & Christine Gouveia
Abhinav Goyal
Georgia & Jay Graham
Howard & Denise Graham
Mark Grant
Alan Gratz & Lisa Larson
Brian & Carol Gravelle
David & Gretchen Grayson
Charles Green & Olivia Shen Green
David Greene
Craig & Valerie Greenough
Heidi & Joseph Grossart
Chessa Guillas
Arthur & Ellen Gully
R. Scott & Rosemary Guthrie
Diana & Victor Gutierrez
David & Desde Haas
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Richard & Vera Hagler
Valencia Hale
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James & Doris Hanan
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Scott Hancock & Stephanie Ludi
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James Hannah & Jo Ellen Hose
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Cynthia & Scott Harmon
Charles & Jayne Harmon
William Harms
Jorge Haro
Alex Harr
Alvin Harris
Scott Harvey
Philip & Cheryl Hasl
Carl & Danielle Hathaway
David Haworth
Bart & Julia Hayashi
Kenneth Hayes & Elizabeth Ionillo
Mattia & Thomas Healy
Joseph Hebert
Thomas Hedge
Robert Heilmann
Julie & Matthew Heim
Joanne & Ric Henzen
Craig Henderson
Jeffrey Henness
Douglas Henry
Paul & Susan Henry
Richard & Colleen Henry
Richard Herbrandson
Glenn & Kaye Hermanson
Pete & Genylin Herald
Charles & Janet Hennen
John & Eileen Hidahl
Steven Hiensch & Michelle Laver
Keith & Karen Higgins
Joan & Brian Hill
Kevin Hill
Phong Hoang & Michelle Duong
Thanh Hoang & Hang Vo
Gregory & Nancy Hobbs
Jessica Eggleston
Industrial and Manufacturing Engineering

Boeing Scholarship
George E. Hoffman Scholarship
Toyota Material Handling Honor Scholarship

“I came to Cal Poly because my mom said I should — and that’s some of the best advice I’ve ever received! When I was a high school senior in Oceanside, California, I first heard about Poly when I was recruited to play basketball. It was one of several colleges I was looking at, but mom said she loved Poly and that made the decision much easier. It’s been a great experience.

“Because I’m super competitive in everything I do — maybe even to a fault — I’ve worked hard both athletically and in the classroom. It has paid off. I was the starting power forward on the basketball team and got a performance management job with PG&E at Diablo Canyon. I’m definitely open to a career path with PG&E after I give pro basketball in Europe a shot. Obviously, the scholarship is very helpful financially, but it’s also great to be recognized for your hard work.”
James & Joan Holcombe
Richard Holladay
Matthew & Susan Hornokka
Gerald & Lonnie Hoopes
Anna & Darren Hopkins
William & Cathleen Hopper
Janice Horcazas
James Homing
Wade Horwood
Cynthia Hatchkiss
Jeffrey Hougen
James & Karla Houlahan
Carolyn & Leland Houseman
Dennis How
Colin Hughes
Daniel & Ellen Hunter
William & Barbara Hurley
Dennis Hurst
Paul & Barbara Huse
Kyle Huth
Ermino & Masahiro Ieyashi
Lawrence Imram
April & Numa Iriart
Rhonda & Tod Irwin
Peter & Nancy Iverson
Fred Isadi
Kenneth Isant
Darvin Ison
Mark & Michele Jackson
Margaret Jacoby
Dean & Shirley Jensen
Felimon Jasimarina
Robert Jareguig
Barbara & David Jensen
Edmund & Judith Jensen
Randy & Liz Jensen
Derek Jewhurst
Sarbjit & Parmjit Jahl
Albert Johnson
Craig & Cathy Johnson
Debbie & Robert Johnson
Harvey & Linda Johnson
Andrew & Alice Jones
Dean & Roberta Jones
Ivan Jones & Rosaleen Gaffney-Jones
James Jones
Russell & Catherine Jones
Diane & Joseph Kabik
Diana & Kenneth Kantola
Jeffrey & Anne Katz
Ronald & Liz Keeley
Dennis & Gyl Keiser
Kathie & Kenworth Keith
Michael Kellner
Peter Kelly
Samuel & Donna Kelly
Karen & Richard Kendall
Jessica Kendrick
Antonia & Jeffrey Kenney
Jane & William Kesselsing
Thomas & Susan Kessler
Mark Kestel
Randy Kihara
Dennis & Betty Killen
Michael Kim
Wayne & Theresa Kimmel
Jay & Christine King
Kevin & Wendy Kishiyama
Christie & Kris Kjellman
Kenneth & Jennifer Klar
Donald Kline
David & Serene Klumpar
Kurt & Loretta Kofeed
Karen Kohorst-Sullivan & Adam Sullivan
Thomas & Julie Kramer
Christine Kregger
Keith & Regina Kronmiller
David & Melanie Krujger
Edwin Kubota
Takashi Kubota
Thomas & Debra Kuehl
Robert & Melinda Kufeld
Peter Kuykendall
John & Kelly Kwan
Ronald & Cynthia Lafferty
Kha Lam
Kathleen & Wayne Lamoore
Clayton Lampman
Kenneth Landau & Victoria Whitney
Joshua Lando
George Landreth
Alan Lane
George Lang
Peter & Renna Lantz
Gerald & Susan Larson
Robert & Monica LaRue
Christopher & Jennifer Latimer
On Lau
Carol & Michael Laughlin
Robert & Betty Law
Kenneth & Lily Laws
Brendon Le Court
Michael Lebar
Julie & Thomas Lebans
Steven & Rona Ledermann
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Steven & Halee Lee
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Materials Engineering

William B. Turner Scholarship  
Helen Sandercock Scholarship  
Cal Poly Outreach Scholarship

“Engineering classes at Cal Poly are not all theory — I really like to work on real-world projects — and I have to say the ‘Learn by Doing’ philosophy was a big attraction for me when I began looking for a college. I was fortunate that my high school in Olympia, Washington, had an introduction to Materials Engineering course that sparked my interest in the subject. I was looking at all the engineering schools in the West when I discovered Cal Poly’s MATE website and saw the program was stressing sustainability and studies in alternative energy Poly just seemed like the perfect fit.

San Luis Obispo now feels like home even though I’m hundreds of miles from Washington. I really appreciate the opportunities given to me so far by the engineering program and groups like the Hydrogen Energy Club, along with the scholarship money. My freshmen year, we built a solar water heater that worked really well. How cool is that?”
Manuel Parayo
Michael & Jean Parcher
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Larry Trowsdale
Donor: Chuck Dana

A professor establishes a record of giving that stretches over twenty-five years

Chuck Dana’s first gift to the Computer Science Department was his teaching.

“Teaching was the fun part of my graduate studies at U.C. Santa Barbara,” he says; “so, in 1982, I came to Cal Poly, where the primary focus is on students.

“I wasn’t disappointed; in fact, the highlight of my career has been interacting with students and colleagues. It’s always a pleasure when a student comes to my office and we sit and gab for an hour.”

Dr. Dana’s first cash gift to his department in 1987 was practical: funds to purchase a copying machine, “so that professors wouldn’t have to requisition every single page they needed.”

“In general, I’ve given over the years to make it easier for my department and the university. As a professor, I know that State Budget funds need to be supplemented with private gifts in order for department chairs to have the flexibility to make things happen. You can’t worry about every ten-dollar expenditure if you want to develop new programs and new curricula.”

In the last several years, Dr. Dana has made his gifts to Cal Poly in the form of charitable annuities. “I was really attracted to the benefits of deferred giving—it increases my retirement income while reducing my taxes, and it allows me to give a bigger gift than I would be able to otherwise.”

“I hope the word gets out about annuities because they make so much sense and they’re a great vehicle for giving back,” notes Dr. Dana. “I grew up around schools—my dad was a grade school principal and my mom was a teacher—so I’ve always figured that you should put more into a job than you take out of it. I hope my gifts continue to benefit Cal Poly and the students long after I’m gone.”
Steven Trueblood
Eduardo Truhillo
James & Patricia Turdici
Dirk & Judith Tysmans
Gregory & Shawnie Ullner
Carmen & Frank Urenda
Segismundo & Kathleen Valdes
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Bart & Teresa Connolly
Phaidra Rice  
Civil Engineering  

Kimley-Horn Scholarship  
Regnar Hessellund Scholarship

“Cal Poly’s Engineers Without Borders has literally opened up a new world of experiences for me. As EWB president for 2006-07, I have had a chance to work on two projects: water resource development for a village in Thailand and a soil brick press for building homes in an Indonesian coastal village in Sumatra. The type of projects Engineers Without Borders gets involved with really make a difference in people’s lives and I’m inspired to continue this type of work after college.

“Scholarships have been vital to my education both at Cabrillo College in Santa Cruz and Cal Poly. Scholarships and financial aid are huge! They’re extremely important and I’m extremely appreciative!
Himanshu Parmar  
Electrical Engineering  
*Raytheon Company Scholarship*

“I’m a hands-on type of student and I like to get my hands dirty. Well, at least as dirty as electrical engineering projects will allow. It was the reputation for hands-on education that attracted me to Cal Poly from Mission Santa Clara College and I have a lot of appreciation for the program. I’ve been able to focus on my two areas of interest — digital design and signal processing — while working on some very interesting projects.

“It’s easy to see why I’m not your typical Cal Poly student. I was born in Rajkot, India and I am a practicing Hindu. I have the Hindu marking called *Swaminarayan* on my forehead. It’s a red dot that means devotion and a ‘U’ that signifies the feet of God. Like my religion, my education is vitally important to me. The scholarship is greatly appreciated because any financial help allows me to concentrate more fully on my classes.”
He remembers nights and weekends spent working on projects at Cal Poly

“In my senior year I was in a manufacturing processes class with about ten other guys,” recalls Frank E. “Bud” Pilling. “We were paired up in different projects and we spent classroom time and also nights and Saturdays working on them. Francis Whiting, our wonderful instructor, kept in touch with us though the years.”

Having earned a degree in mechanical engineering in 1950, Bud went on to a career in which he rose through the corporate ranks, primarily at Borg-Warner, to become president of the company’s Automotive Group.

“I have always recognized that the education I received at Cal Poly was a major factor in my career movement at Borg-Warner,” he says. “Now I want to help the college provide the best for its students, so they may have a chance to be successful as well.”

Bud and his wife Lauri established an Endowed Fellowship for Senior Projects. The endowment will provide up to $10,000 per year when fully funded to support students working on individual or group senior projects. The gift continues a Pilling legacy to the College of Engineering, including a $1 million gift in 1993. In 1994, Cal Poly dedicated its Computer Science Building as the “Frank E. Pilling Building” in recognition of Pilling’s generosity and support.

“We really enjoy seeing what the students at Cal Poly are doing, and we have a grandson there now, in business agriculture,” says Bud. “Lauri and I feel that it's especially important to support engineering and agriculture, which are vital for the country. We need to feed people, and to be a leader in the world, we need engineering know-how.

“We want to encourage students who are curious, ambitious, and willing to work hard. We wish them—and Cal Poly—our best.”
We would like to thank the following donors for their in-kind gifts:

Nicholas Fortune
Daniel & Pamela Franchi
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Donald & Lee O’Daniel
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Lawrence & Rachel Yuen
Linda & Kendall Zigler
John Zimmer
William Zimmerer
Michael Zuniga
Pui Ying “Andrea” Lam
Industrial Engineering

George E. Hoffman Scholarship
Herbert E. Collins Scholarship
Material Handling Education Foundation Scholarship

“I came to the U.S. from Hong Kong at 16 to take advantage of the educational opportunities. My parents stayed behind because of their jobs, but my sister also attended high school here, at San Luis High, so I’ve been her acting guardian throughout her high school years. I’m proud to say she’s going to UC Davis next fall, while I’m joining Cisco in San Jose.

“I have loved Cal Poly and learned so much. It has changed me and made me a better person. I was very shy, but I’ve learned to be more outgoing. For my senior project I was the project manager for an RFID system. It was a little overwhelming, but I got a lot out of it. My professor, Tali Freed, has been a great mentor, always saying, ‘Andrea, you need to be more assertive!’ Plus, I have a wonderful department—even people outside the major see us as tight. My favorite part of IME is the people.”
### Endowments

<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donald E. Bently Professional Endowment in Mechanical Engineering</td>
<td>$7,708,780</td>
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<tr>
<td>Constant J. Chrones and Dorothy F. Chrones Endowment Fund</td>
<td>$4,125,082</td>
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<td>Reinhold Endowment</td>
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<tr>
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<td>James E. Brennan Swedish-American Exchange Program Endowment</td>
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<td>Walter T. Wells Scholarship Endowment</td>
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<tr>
<td>Brad E. Yackle Scholarship in Computer Science Endowment</td>
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<td>Roy N. Poage Memorial Scholarship Endowment</td>
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<td>Mechanical Engineering Faculty Professional Development Endowment</td>
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<td>Reinhold Aero Eng Scholarship Endowment</td>
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<td>Tandem Computers Endowment</td>
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<td>Industrial &amp; Manufacturing Engineering Quasi Endowment</td>
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Charles H. Black Scholarship Endowment $53,442
Langchen & Wulian Chou Endowment $51,934
Mechanical Engineering Endowment $51,594
Anderson Family Outstanding Freshman IE Scholarship Endowment $47,487
Aero Engineering Building Fund Quasi Endowment $38,864
Horace C. Morana Scholarship Endowment $38,810
MEP Endowment $38,444
Civil & Environmental Engineering Advisory Board Professional Advancement Award $37,079
George & Tonny Murray Scholarship Endowment $34,130
Aerospace Systems Scholarship Endowment $34,049
Richard F. Burris Endowment $32,460
W.D. Forgeng Scholarship Award $29,916
William Squires Fowler Scholarship $29,556
Demcak Facilities Engineering Award $27,911
Stephen E. Cooper Endowment $27,174
Dragoslav M. Misic Scholarship Endowment $26,949
Accenture Scholarship Endowment $26,798
APWA/Herbert E. Gerfen Endowment $26,778
John Stephen Larson Memorial Scholarship Endowment $24,865
Clinton Schwieker M.E. Endowment $23,462
Accenture Outstanding Junior Industrial Engineering Scholarship Endowment $22,961
George Hoffman Memorial Quasi Endowment $22,814
Andrew Wacht Scholarship Endowment $22,771
Spaulding Scholarship Endowment $22,406
Millard J. Fotter Scholarship Endowment $22,346
Charles Peter White Scholarship Endowment $22,169
Joe Jackson Memorial Scholarship Endowment $21,464
Dr. & Mrs. Chan F. Lam Achievement Scholarship Endowment $19,789
Engineering Faculty Development Quasi Endowment $19,153
Cordner Gibson and Ace Smith Scholarship Endowment $19,012
Michael Orion Sass Memorial Scholarship $17,917
Konrad Meissner Scholarship Endowment $16,763
Electrical Engineering Scholarship Endowment $16,709
R.M. & J.A. Simpson Memorial Endowment $15,673
Sandlin Aircraft Design Award $15,439
Warren Stauffer Memorial Aerospace Engineering Scholarship Endowment $15,419
Warren Stauffer Memorial Computer Engineering Scholarship Endowment $15,419
Harold & Judy Cota Award $15,220
Russ Cummings Sophomore Aircraft Award $14,688
Robert E. Wulf Aerospace Engineering Scholarship $10,590
Lars Larsen Engineering Scholarship Endowment $10,310
Rory & Rosemarie Cooper Endowment in Electrical Engineering $8,254
Environmental Research Foundation Award Endowment $6,764
William H. McKeen Memorial Award Endowment $5,571