



DOS PUEBLOS ENGINEERING ACADEMY FOUNDATION

"Supporting engineering education on the South Coast"

AMIR ABO-SHAEER
DIRECTOR, DPEA

BOARD OF DIRECTORS

SANDRA SEALE
PRESIDENT
LISA DANIELS
TREASURER
KATHY LOGAN
SECRETARY
AMIR ABO-SHAEER
EX-OFFICIO
LARS BILDSTEN
ALISON BUTLER
JOHN MARTINIS
GARY SIMPSON

ADVISORY BOARD

WILLIAM J. CIRONE
SUPERINTENDENT,
SB COUNTY EDUCATION OFFICE

THOMAS E. EVERHART
PRESIDENT EMERITUS,
CAL INST OF TECHNOLOGY

STEVEN GAINES
PROFESSOR, MARINE BIOLOGY
DIRECTOR, MSI, UCSB

NANCY HARTER
PAST PRESIDENT AND MEMBER,
SB BOARD OF EDUCATION

JAMES J. KNIGHT
FOUNDER, FLIR SYSTEMS

GENE LUCAS
EXECUTIVE VICE CHANCELLOR,
UCSB

JOHN B. ROMO
PRESIDENT EMERITUS,
SANTA BARBARA CITY COLLEGE

MATTHEW TIRRELL
PROFESSOR AND CHAIR,
BIOENGINEERING, UC
BERKELEY

PIERRE WILTZIUS
DEAN OF MATHEMATICAL, LIFE,
& PHYSICAL SCIENCES, UCSB

ADDRESS
PO BOX 313
GOLETA, CA 93116

WEB SITE
WWW.DPEAF.ORG

DPEA Spring and Summer 2009 Highlights

\$30,000 Challenge Grant for October 2009!

Donors are challenging the DPEA community to raise \$30,000 for the DPEA Capital Campaign by October 21st, 2009. An anonymous donor put up \$10,000, followed by \$10,000 from Andy and Dolly Granatelli, and additionally \$10,000 from Anthony and Sonja Granatelli. Success in this challenge will lead to matching contributions on their part up to \$30,000! *Let's make it work!* All new pledges and donations gathered by October 21st will count towards the match. Our goal is to raise \$2,400,000 by November 2010 and we have raised \$656,000 so far. Pledges and donations can be mailed to the DPEA Foundation, PO Box 313, Goleta, CA 93116. Also, please visit the website www.dpeaf.org.

Team 1717 successful, yet again!

Team 1717 worked with characteristic ingenuity and success from January 3rd to February 17th, 2009 when the robot shipped out to the first of two regional competitions. At the Los Angeles regional competition, Team 1717 took 2nd place in the overall competition and won the prestigious General Motors Industrial Design Award. This award is given in recognition of the best robot design at the competition. Two weeks later, at the Sacramento Regional competition held at UC Davis, Team 1717 took 1st place; they went undefeated, winning all 15 matches!! Team 1717 received the Motorola Quality Award, which "celebrates machine robustness in concept and fabrication." But that's not all . . . Team 1717 then went on to the international championship in Atlanta, April 16-18, 2009 where they reached the top 10 in standing before losing in the semifinals to the team that went on to win the finals. Team 1717 brought home the coveted Championship-Motorola Quality Award, signifying that Team 1717 really did have the best-designed robot in the competition!

"The New Cool"

New York Times best selling author, Neal Bascomb, followed Team 1717 through the 2009 FIRST season, along with two other teams. He is writing a book entitled "The New Cool" to be published by Random House in January 2011. Bascomb says the Dos Pueblos team serves as a guide to what the future of Science, Technology, Engineering and Math (STEM) education should be. You can visit his website at <http://www.nealbascomb.com/>.

All 31 graduates of the 4th DPEA class are off to college this Fall

They are attending (in alphabetical order) Amherst College, Caltech, Cal Poly San Luis Obispo, Davidson College, Glasgow University, Johns Hopkins University, New York University, Princeton University (2 students), Stanford University, UC Berkeley (4 students), UCLA, UC Riverside, UCSB (12 students), Vassar College, and Whitman College. Two thirds of the graduates anticipate majoring in engineering and the sciences, including mechanical engineering, biomedical engineering, civil and environmental engineering, chemistry, computer science, electrical engineering, physics, and molecular and cellular biology. Other declared interests include, economics, environmental and political science, drama, English and Italian, and international relations.

“We are shovel ready”

The final drawings of the DPEA building facility have been completed by KBZ Architects, as well as approved and permitted by the Division of the State Architect in February 2009. In May, the Santa Barbara School District received a letter from the State Allocation Board stating that the \$3,000,000 has been set aside for the project. The Santa Barbara School District and the DPEA Foundation are working together to move the project forward.

The DPEA Lindsay Rose Memorial Fund

Freshman DPEA student Lindsay Rose passed away in a tragic surfing accident this past April. Besides being in the Engineering Academy, Lindsay was a member of the National Honor Society, the DP soccer team, surf team, and softball team. The Rose family requested that in lieu of flowers, donations be directed to the DPEA Capital Campaign. To date, donations to the DPEA Capital Campaign in honor of Lindsay Rose total more than \$16,000. The DPEA Foundation was overwhelmed by this outpouring of support from the community. The Foundation is grateful to Lindsay’s parents, Don and Linda Rose, for ensuring that Lindsay will forever be a part of the DPEA family by allowing us to name the Mechanical Engineering Classroom in the new facility in her memory. Our hearts and our gratitude go out to Lindsay’s parents and the extended Rose family.

Kudos to *all* the DPEA Families

By the end of the 2008-09 school year, 100% of DPEA families had contributed to the Capital Campaign for a total of \$157,000. This is outstanding! It makes a huge difference to the success of *all* other fund raising efforts. We are well on our way to raising the \$2,400,000 match that we need by November 4th, 2010.

Robot around town...

Come see the DPEA Robots and Students in action at the 18th Annual California Lemon Festival in Goleta, October 17th (10am-6 pm) and 18th (10am-5 pm), Girsch Park, 7050 Phelps Road, Goleta (Free).

News from the graduates.....

This summer DPEA 2008 alum **Erika Bildsten** traveled to India with the Massachusetts Institute of Technology (MIT) Vehicle Design Summit (VDS). For 8 weeks in Pune, she worked with fellow college students and industry professionals towards a 100mpg, low emissions vehicle to compete in the X PRIZE competition and race in May 2010. As a sophomore at MIT in mechanical engineering, electrical engineering, and computer science, she reflects that the DPEA was excellent preparation for large, dynamic group projects, as well as academic rigor.

2007 DPEA alum **Ross Silverstein** writes: “Participating in the Robotics program at DP was the most valuable experience I could have asked for. It really helped me figure out what I want to do with my life. Mr. Shaer runs the Engineering Academy as a business—with different teams and projects and a rather large budget. I headed the grant-writing process and worked on the public relations between the DPEA and local schools, corporate sponsors and FIRST Robotics as a whole. The Dos Pueblos Engineering Academy gave me great business experience plus knowledge and a comfort level with engineering. This experience led me to study Economics at UC Berkeley, where I am now a junior. I plan to pursue a career in business, perhaps in the technology industry.”

2006 DPEA alum, **Caitlin York** is in her senior year of college at Yale University. She writes that “being a part of the first D'Penguineers robotics team was the best academic experience I had in high school. Though I don't study physics or engineering at Yale, the skills I learned on the team have served me well. I'm not afraid to try to come up with creative ways to solve problems. I can also use a power drill and even built some bookshelves for myself this year! I'll be graduating from college this year with a degree in Latin American Studies, but I still feel that physics and engineering are subjects that are accessible to me. The things I learned with the robotics team are indispensable to my education in any subject.”

The DPEA is “tweeting”...

Following the lead of many other FIRST robotics teams, Team 1717 just acquired a twitter address. The Team anticipates that this website will be extremely useful during the robotics competitions. Team members will be able to post match scores and robot updates for everyone to read right away. To view the Team's twitter page, visit <http://twitter.com/frc1717>.

The DPEA Foundation welcomes a new Advisory Board Member

Pierre Wiltzius has joined our Advisory Board. He is the new Dean of Mathematical, Life, and Physical Sciences at UCSB, having arrived about one year ago from the University of Illinois at Urbana-Champaign. Read about him at http://www.science.ucsb.edu/dean_pierre_wiltzius.

DPEA All-Parent meeting on September 21st

The DPEA Foundation hosted its annual All-Parent meeting on September 21st. Over 100 parents and friends attended the meeting. Members of the 2009 Team 1717 were on hand to demonstrate the Penguinbot. Mr. Shaer gave an update on the program and building plans; and members of the Board of Directors gave an update on the fundraising activities. After the presentation, parents broke into groups to discuss with board members volunteer opportunities and community outreach. We anticipate another exciting year!