Engineering Faculty:

Jo-Ann Panzardi, PE; Chair/Instructor; 
jp@cabrillo.edu; 831-479-6497

Karen Groppi, PE; Instructor; 
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Kelli Horner, Instructor; 
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Karl Ewald, PhD, Instructor; 
kaewald@cabrillo.edu

Important Web Sites:

Engineering Department Web Site: 
www.cabrillo.edu/academics/engineering/

Engineering Abroad Web Site: 
www.cabrillo.edu/academics/engineering/engrabroad/

STEM Website: 
www.cabrillo.edu/services/stem/index.html

MESA Website: 
www.cabrillo.edu/services/mesa/

Student Clubs:

Become an active member of one of the following clubs: Engineering Society (ES), Engineering Abroad Club (EAC), Robotics Club (RC), Engineering K-12 Outreach Club (EOC), Women in Science and Engineering (WISE), Bike Co-op, and Sustainability Club. Check out the STEM web site for details and contact for each of the clubs.

Presidents:

ES: John McDermott, cruzianjohn@sbcglobal.net

EAC: Sarah Kalman, skalman.therapy@gmail.com

RC: Aaron Heagerty, aheagerty@live.com

EOC: Jake Magee, jake.magee41@yahoo.com

WISE: Shae Finnagan, shaefinnegan@gmail.com and Nadia Trautwein, trautwein.nadia@gmail.com

Jose Jimenez (JJ) is forming the student chapter of the Society of Hispanic Professional Engineers (SHPES) this fall. Anyone interested, please email Jo-Ann Panzardi and she’ll forward to email to JJ.

Student Clubs:

“An engineer can discover a new star, but s/he cannot make one. S/He would have to ask an engineer to do that.”

Discover magazine
Scholarship Recipients:

Congratulations to the following students for receiving Engineering Department Scholarships:


Applications are due in October and March of each year. See the Engineering Department web site for details.

New Scholarships:

- Barbara Samper STEM Scholarship for incoming STEM students. Thanks to Barbara Samper and the US Department of Education STEM grant for establishing the scholarship.

- Reentry Engineering Scholarship. Thanks to Andy Ward and Mike Hopper for spearheading the donation campaign.

- Women in Engineering Scholarship. Thanks to all the engineering alums who contributed to this scholarship.

- STEM Cheveron Scholarship for incoming STEM students. Thanks to the Foundation for receiving the Pro Am Eagles for Education Award to secure this donation.

Declared Major/Education Plan:

Be sure to declare yourself as an engineering major and get an educational plan. You can meet with Jo-Ann Panzardi, Kate Disney, or Evelyn Seth (STEM/MESA Counselor) to set up one. As of Spring 2015, you will only be able to receive financial aid if you have a declared major and an ed plan.

CSU Transfer Requirement Changes:

The California State University has just updated assist.org to reflect the changes that the CSU Chancellor’s Office mandated. Please visit assist.org to make sure you are planning on taking the correct courses. In most cases, you have to take less than you originally planned.

New Engineering Courses:

Beginning this Fall 2014, the Engineering Dept. will offer three sections of ENGR 12 Machining Processes to train engineering students to use machine shop equipment: mill, lathe, drill press, band saw, and more. Thanks go to Ania and Nick Cierkosz’s (alums) parents for donating the funds to purchase all the equipment and tooling for the shop. ENGR 12 will be taught by Roy MacLeod. Roy is a Cabrillo engineering alum and has a wealth of experience in machining. That’s him in the photo below sitting on the scotter he designed completely out of wood he machined. Thanks go to Roy for procuring the equipment and setting up the shop. Please thank him when you see him!

Beginning this Spring 2015, ENGR 30 Computer Applications in Engineering will be offered for the first time and will be taught by Karl. Matlab will be the programming language for the course. For many of you, you will take ENGR 30 instead of CS 11. Check assist.org.

!! FINANCIAL AID !!

We can’t say more about how important it is to apply for financial aid. The more financial support you get, the more time you can devote to your studies, and the better you’ll do in your classes. The Financial Aid office is very busy at the start of the semester, but right now and during the middle of the semester, they are slower.
Engineering Abroad:
Eleven engineering students along with Jo-Ann and Karl traveled to Guatemala in January 2014 for an engineering experience and cultural exploration. The students designed a rainwater catchment system to provide the village of Vuelta Grande with potable water. The Engineering Abroad Club raised ~$8,000 for the excursion. The students on the 2014 excursion were Tom Dahl, Santiago Delgadillo, Brandon Faria, Toby Gay, Hayley Graves, Gracie Harder, Jose Jimenez, Sara Kalman, Patrick Mojica, Kenny Murray, Jill Winters. Visit the Engineering Abroad web site to learn more. A second group of students have been chosen to return to Guatemala in January 2015 for another engineering project.

Middle School Outreach:
Cabrillo engineering students formed the K-12 Engineering Outreach Club and started the after-school Engineering Club at New Brighton Middle School (NBMS) in Capitola. The club exposed 40 MSers to many fields of engineering through hands-on design projects in the fall. During the Spring 2014 semester, the Robotics Club joined the Outreach Club in having the MSers design underwater ROVs (remotely operated vehicles) and test them in the Cabrillo pool. The program was such as success that NBMS will have an engineering elective added to their curriculum next year. Well done to the following engineering students: Dan Krammer, Diego Lizzi, Janethe Barrera, Ruby Rocha, Eugenio Jimenez, Mitasha Malhan, Jake Magee, Thomas Martinez, Aaron Trujillo, Garret Mason, Aaron Hagerty

Design and Innovation Evening
SC Museum of Art and History (MAH):
The engineering department hosted the Design and Innovation theme of the Third Friday event at the MAH in May. Families from the community participated in making jiggabots, wind-powered mills, and foam rollercoasters with the help of members from our Engineering K-12 Outreach, Engineering Society, Engineering Abroad and the Robotics clubs.

STEM Grant:
Thanks to the US Department of Education, Monterey Peninsula Foundation, Jack and Peggy Baskin, and Cabrillo College for funding our new Engineering, Physics, and Computing Building which houses all new classroom, labs and the awesome 5,000 sq. ft. STEM Center where you receive free tutoring and participate in course workshops. It even has a kitchen. It’s our home away from home!

Engineering Quote
“One person’s ‘magic’ is another person’s engineering.”
Robert Heinlein, science fiction writer
**Surveying the Yacht Harbor:**
The Fall 2013 ENGR 1A Surveying students worked with Mike Hopper (Yacht Harbor engineer and Cabrillo engineering alum) in surveying Twin Lakes State Beach. Thanks to Mike Hopper, to arranging this fantastic opportunity.

![Surveying the Yacht Harbor](image)

**Girls and Boys in Engr Camps:**
This is the third summer that we have offering middle school girls and boys engineering programs to explore engineering through hands-on projects. Thanks to the amazing teacher Rhoxanne Morris (alum) and thanks to the peer leaders Mitasha Malhoun, Isadora Quintanilha, Kalika Diaz, Daniel Krammer, Cesar Ramirez, Claudia Montoreano, Shae Finnegan, Nadia Trautwein.

![Girls and Boys in Engr Camps](image)

**Engineering Dept. Orientation:**
Tuesday, August 26, 2014 will be our Welcome Back event in the STEM Center, Rm 834, inviting you and your family and friends to learn about the engineering program, renew friendships, and meet new friends. We will discuss courses, scholarships, financial aid.

![Engineering Dept. Orientation](image)

**Alum Party:**
In early May the Engineering and Physics Departments and the MESA program hosted an alumni reunion for 20-years worth of alum. It was wonderful to reconnect with the alum and watch them bond with each and talk about past times and the exciting things they are doing now.

![Alum Party](image)

**ENGR 5 Summer TAs:**
Thanks to Cesar Ramirez, Aboudeh Almalouhi, Nadia Trautwein, Mauricio, Rivera, Melissa Jimenez for coordinating a great experience for the ENGR 5 students.

![ENGR 5 Summer TAs](image)

**STEM/MESA Counselors:**
Evelyn Seth, evseth@cabrillo.edu
Sign up in the STEM Center

![STEM/MESA Counselors](image)

**See ya in the fall!**

![See ya in the fall!](image)