

IEEE Region 6 Awards – 2009-2010 NOMINATION FORM

(for Area Awards, and also for Region 6 Awards)

(This Nomination form is to be used by Sections for Area Award Nominations for all categories. This form is also to be used by Sections-via-Areas for Region 6 Award Nominations. Please use one form per Nomination.)

Area → [] Central, [] NE, [] NW, [**X**] Southern, [] SW

Award Category of the Nomination:

- [] Outstanding Engineer Award
- [] Outstanding Leadership and Professional Service Award
- [] Outstanding Section Award
- [] **Outstanding Corporate Service to Engineering Community Award**
- [**X**] Outstanding Student Branch Award
- [] Director's Special Award / Area Chair's Special Award

Name (Individual/Section/Student-Branch/Company): Cal Poly San Luis Obispo

Address: San Luis Obispo, CA

Phone: _____ e-Mail: allenderd@gmail.com

Officer: David Allender

Title/Position: President

IEEE Grade: Student Branch Date of Grade: _____

Company: Type of Business, # of employees, etc

4-year university

Engineering Department, IEEE Central Coast Section Student Branch

Proposed Citation:

Presented in recognition of the IEEE Central Coast Section Student Branch at Cal Poly, San Luis Obispo, for their leadership and dedicated academic service and for promoting excellence in engineering education during their membership in the university organization and their continued professional advancement in engineering on the Central Coast.

Supporting information to be attached, as appropriate and applicable:

- (a) Engineering Career (Brief Summary), (b) Education, (c) Research/inventions, (d) Contributions to engineering literature, (e) Contributions to IEEE activities, (f) Contributions to the community
- Outstanding accomplishments of the Section
- (a) Company contributions to engineering, (b) Company support of IEEE activities, (c) Company contributions to the community (monetary and other relevant contributions)
- Outstanding accomplishments of the Student Branch
- Region 6 Director's Special Award / Area Chair's Special Award

Mission:

Consistent with the Mission Statement of the IEEE:

Core purpose is to foster technological innovation and excellence for the benefit of humanity.

Vision: IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

Outstanding accomplishments:

- One of the largest and most active clubs on campus (200+ members); Bi-weekly meetings, wide ranging technical, educational, and social activities
 - Broad-based support for IEEE Societies and Chapters (Power Engineering Society, Computer Society, Communications Society)
 - Regular participation in technical and administrative activities of the Central Coast Section, Region 6 Southern Area, other Sectional student branches and collaborating professional organizations
 - Strong liaison with engineering organizations and employers in California on the Central Coast and the Bay Area as well as outreach with K-12 and pre-university engineering programs
 - Award-winning participation in local, regional, and national engineering competitions (First Robotics, Solar Car, Sustainable Habitat, PolyKart)
 - Innovative methods for organization and dissemination of the Branch's technical and social activities, using next-generation social networking and other web-based communication and marketing vehicles
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Central Coast Section
Section Name

George Konstantinow, Ph.D.
Name of Nominator (Section Awards Chair or Section Chair)

GK
Signature of Nominator (Section Awards Chair or Section Chair)

Chair, Central Coast Section
Title of Signer/Nominator

(805) 448-8892, george.konstantinow@ieee.org
Phone / e-Mail

07 Jun 2009
Date

Signature of Area Awards Chair or Area Chair (for Region Awards)

Date

IEEE Central Coast Section – Cal Poly Student Branch

June 2009

The IEEE-SB at Cal Poly is the largest and most active professional society within the Electrical Engineering, Computer Engineering, and Computer Science departments. Our club provides services to the student body that are an integral part of their development as engineers. The friendships that students forge within our club often develop into professional relationships that last throughout their careers.

Our Mission:

The IEEE-SB serves the EE/CPE/CSC student community in three primary fashions:

- 1) Developing a connection between industry and our student body
- 2) Serving as a resource for coursework tutoring and lab equipment
- 3) Providing social venues for EE/CPE/CSC students to network with colleagues

The IEEE-SB at Cal Poly enjoys a rich heritage as one of the oldest clubs on campus. The club was initially established in 1948 as the Institute of Radio Engineers (IRE). Since then, the IEEE-SB has evolved and expanded to where today the club serves as an essential resource to further the development of all EE/CPE/CSC students.

Our club continues to maintain a time-honored tradition of hosting bi-monthly speakers from industry. Such speakers inform our students of the latest developments in products and technology, and the experience helps bridge the gap between the practical educations earned here at Cal Poly and the real careers that await students when they graduate. Often the speakers are themselves graduates of one of Cal Poly high-tech engineering departments, returning to share their experiences since graduation. Thus the IEEE-SB continues to facilitate the critical process of forging professional connections even after a student graduates.

The Student Development Lab:

The Student Development Lab (SDL) is the official home of the IEEE-SB and the nerve center for daily life for students. Over the past few years we have begun the long-overdue process of upgrading and modernizing the SDL. Thus far we have added three donated computers and set up a makeshift electronic test bench equipped with two antiquated analog oscilloscopes. Furthermore, we have organized boxes of old textbooks, reference books, and technical manuals into a useful library that is accessible to the student body.

The SDL also serves as a venue for the IEEE-SB to sell electronic parts. Rather than pay highly marked up prices at the campus bookstore, students may come to us to purchase lab kits and various individual components at wholesale prices. Our club provides this service on a non-profit basis.

Besides supporting academic activities on campus, the SDL is also a student lounge equipped with couches, a refrigerator, a microwave, and free Internet access. Although the SDL has become a central hub for daily student activity, there are still many improvements that are necessary in order to modernize our lab.

Chapter Activities:

There are currently approximately 290 members of IEEE-SB at Cal Poly, up from less than 250 members at the start of this past school year. We anticipate that our membership will grow significantly in the coming year. Our chapter organizes activities not only for our members, but also for the entire Cal Poly EE community. Our goals in holding these activities are to inspire interest our field, forge stronger connections between faculty and students, and keep our engineering student community informed about current issues that are important to the departments we represent and to our respective fields.

- ΥΠ NEWSLETTER – Our club writes and publishes a full color bi-annual newsletter entitled “Q-Point”. This publication contains articles describing IEEE-SB activities, EE Department news, and other EE-related clubs’ activities. This newsletter is sent out to all IEEE members, and is available to alumni, industry sponsors, and department guests. “Q-Point” also provides a critical opportunity for IEEE-SB to thank and acknowledge our dedicated corporate sponsors.

- ΥΠ IEEE-SB Project Team – This year the IEEE-SB formed and is sponsoring a project team composed of IEEE-SB members to participate in the recently remade *RoboRodentia*, a robotic rodent competition organized annually by the IEEE Computer Society. This team includes four to five club members that will design, construct, test, and ultimately enter our robot to compete during Open House in 2007. The team will be based in the SDL and will use the newly equipped lab space for planning, design, testing and storage. Our elected Projects Team Chair shall select team members. This year the project team is being funded by the IRA, but it is an example of some of our projects, and something we enjoy taking part in each year. (occurs annually)

- ΥΠ FACULTY APPRECIATION BANQUET – This important annual department event provides an opportunity for students to honor their most influential professors. Each participating EE/CPE/CSC student nominates a professor of their choice and honors him/her at the dinner. This year it was one of our great successes taking place at Madonna Inn, with over a hundred people expanding, and we are hoping to continue expanding the interest and people each year. (occurs annually)

- ΥΠ Polykart Robotic Competition – The Polykart Competition is a robotics competition that is designed solely for the purpose of exposing as many students as possible to the true practice of engineering. The PolyKart Competition is an entry-level robotics competition that utilizes the concept to simplicity to encourage student participation in a true engineering experience. The theme of simplicity affords students a gentle step into many fields of engineering. (starting 2007)

- ΥΠ SPACE DAY – Space Day is a joint outreach program with several other clubs on campus. IEEE will be working closely with the Society of Women Engineers as well as the Aero Honor Fraternity to put on this event for elementary school children. The event features a flight simulator and at least four other activities for the children to discover. (2006-2007)

- ΥΠ 4th GRADE COMMUNITY OUTREACH (in cooperate with Cal Poly Society of Women Engineers) – 4th grade community outreach is a year long commitment to local elementary schools. One of our members has developed an EE curriculum geared towards 4th graders that teaches them about Electrical Engineering (and engineering in general). We reach out to at least 30 different elementary school students each month. In 2009, we visited Nipomo Elementary School.

- ΥΠ Build an Engineer Day (In cooperate with Cal Poly Society of Women Engineers) – This is a free event gives youngsters hands- on laboratory experience in architectural engineering, aerospace engineering, biomedical engineering, civil engineering, computer science, and mechanical engineering. The annual event, started in 1998, aims to expose students to engineering and the career possibilities in presents. In particular, it aims to attract more girls and minority students to the discipline, though all middle school students are welcome to participate. In 2009, IEEE-SB helped to host a DC motor lab.
- ΥΠ FRESHMEN RECRUITMENT ACTIVITIES – In order to let freshman know about IEEE, we organize activities for the freshman engineering students in the dorms to show them what our club is about.
- ΥΠ MEMBER RETENTION ACTIVITIES – To keep members excited about participating in our events, we sponsor a different social activity each month. Whether it be an ice cream social, picnic at the park, or a free candy bar during finals week, we want to show our members that they have joined a great organization.
- ΥΠ OPEN HOUSE – Each year at Open House, IEEE purchases a booth location and sells hamburgers/hotdogs as well as passing out information pamphlets about IEEE.
- ΥΠ DEPARTMENT BBQ – At the end of the academic year we organize a department wide picnic. Here we get a chance to unwind and to experiment with gourmet BBQ creations. We also compete in the infamous faculty vs. students softball match. You don't truly know your professors until you have seen them show their athletic prowess!
- ΥΠ FACULTY-STUDENT EVENTS – To strengthen relationships between students and professors, we have various faculty-student events that are held each year. Some of our past events are: pie eating contests, picnics/baseball at a local park, and advice panels.
- ΥΠ INDUSTRY REPRESENTITIVES – IEEE-SB invites many esteemed professionals visit our campus and speak to students about what they do and what students can to look forward to after graduation.
- ΥΠ WOW ACTIVITIES – Each year, all of the incoming EE/CPE/CSC students attend an IEEE sponsored event during WOW (Week of Welcome). This year, the students will be going on a photo scavenger hunt followed by an ice cream social. It is a wonderful way for students to learn about IEEE and get to know each other.