

California Geotechnical Engineering Association
(CalGeo)

2018-2019 Funding Proposal



California Polytechnic University, Pomona

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Introduction

The California State Polytechnic University of Pomona Student Chapter of the California Geotechnical Engineering Association would like to thank you for your sponsorship consideration. Sponsorships allow for Cal Poly Pomona students to have an enriched, learning experience, emphasizing our school's polytechnic philosophy. Sponsorships will also provide for our GeoWall Team stronger research ability for our competing mechanically stabilized earth (MSE) retaining wall, allowing us to continue competing at both the Regional and National levels. As we prepare for the upcoming academic year, we would like to invite you and your organization to join our team and help us grow as future engineers.

California Geotechnical Engineering Association

The Cal Poly Pomona student chapter of the California Geotechnical Engineering Association is a student-run organization that focuses on the professional development of its members. We were first founded in 2007 as the first student chapter of the organization. We provide our members with professional networking events, academic networking events, outreach opportunities, community service, and academic enhancement.

Goals

Our goals for the current academic year are as follows:

- Increase student attendance at professional networking events, such as the Geo-Institute and CalGeo events
- Attend the CalGeo annual conference
- Compete in the GeoWall competition
- Mentor elementary, middle and high school students through our outreach events
- Improve the community through volunteer work and community service
- Educate our members through Industry Guest Speakers at our general meetings
- Provide our members with professional development workshops

Outreach

Last year, an outreach program was started with the help of the professors at Cal Poly Pomona. Through this program, we visit elementary and middle schools and conduct demonstrations for the students pertaining to various geotechnical concepts. The demonstrations are informative and hands on to facilitate Cal Poly Pomona's "learn by doing" philosophy. We hope to inspire young students to pursue a career in Civil or Geotechnical Engineering.

Community Service

Our organization believes in the importance of giving back to the community. We have paired with community service organizations in the past and plan to continue for years to come. Some of the services we offer are planting trees with the Tree People organization and beach cleanups.

Professional Development

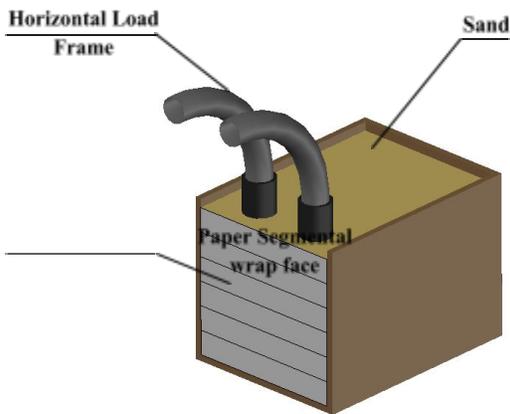
It is our goal to help our members develop the necessary skills to succeed in their academic and professional careers. Throughout the year, we plan to hold resume workshops, networking how-to events, and professionalism workshops. We hope to produce young engineers fit with the skills, both technical and social, to excel in the industry.

Professional and Academic Networking

As an organization, we encourage our members and officers to expand their professional and academic networks. To aid our members in developing a professional network we keep them informed about the various events that ASCE, ASCE's Geo-Institute, and CalGeo hold throughout the year. We organize carpools and encourage our members to attend these professional events. We also encourage our members to expand their academic network through various socials through the year. We recognize the importance of teamwork and encourage our members to network with their peers at various social events throughout the year in the hopes that when they graduate they have developed an extensive network to begin their careers with.

Our goal is to help our members attend two main conferences this year. The first being the 2019 Annual CalGeo Conference in San Diego, California and the second being the 2019 Geo-Congress Conference in Philadelphia, PA.

GeoWall Challenge



The objective of the GeoWall competition is to design and build a model wrapped faced segmental mechanically stabilized earth (MSE) retaining wall model using Kraft paper as the reinforcements and wall facing. The design objective is to use the least amount of reinforcement material required to support the backfill and to withstand the loading phases.

Loading Phases

Vertical Surcharge of 50 lbs placed 5 inches from the back of the removable front panel.

Static Horizontal Surcharge of 20 lbs placed on a horizontal load frame.

Dynamic Impulse Load of 5 lbs dropped from a height of 10 inches above the backfill.

Backfill

This year's backfill is a mixture of clean, dry, rounded to sub-rounded sand.

Competitions

This year, our competition team consists of 6 new undergraduates. Each member of the team participates in the designing, constructing, and testing of the retaining wall. We are aided in our research by Cal Poly Pomona's geotechnical laboratory resources. Our team meets once a week to ensure that we are adequately prepared for the upcoming competition.

Every year, the GeoWall competition takes place at both the regional and national levels. The regional conference this year will take place at the American Society of Civil Engineers' Pacific Southwest Regional Conference (PSWC), hosted by California Polytechnic State University, San Luis Obispo.

Teams are accepted for the national competition based on their design papers, which discuss the design of their retaining wall. The rules and regulations typically change slightly each year, therefore the competition continues to challenge each school in new ways. This year the national competition will take place in Philadelphia, PA at the 2019 Geo-Congress Conference.

The GeoWall Competition is beneficial because it allows students to get a hands-on application of concepts studied throughout their coursework. Students learn about the design of mechanically stabilized earth (MSE) retaining walls from theoretical design to practical application. They also develop long-term teamwork and leadership skills. Finally, the conference is a venue where students can learn about specialized topics in the field, and most importantly, make valuable industry connections.

Our team feels very confident in our abilities to perform well at the regional competition. We hope to place within the top 3 schools.

Performance Overview

2018 “Disqualification” Place in IFCEE 8th Place in PSWC	2017 5 th Place in Geotechnical Frontier 3 rd Place in PSWC
2016 “No Participation” in Geotechnical Frontier “Disqualification” Place in PSWC	2015 11 th Place in Geotechnical Frontier 6 th Place in PSWC
2014 2 nd Place in Geotechnical Frontier 3 rd Place in PSWC	2013 1 st Place in Geotechnical Frontier
2012 1 st Place in Geotechnical Frontier	

Academic Budget

This year CalGeo has high goals for the academic year and our GeoWall team that will be competing at both the regional competition as a part of ASCE's Pacific Southwest Conference and for a spot in the national competition at the 2019 Geo-Congress Conference. A challenge to both CalGeo and our GeoWall team is to raise enough funds to support the events, travel and participation throughout the academic year. Each item in our budget is based from the current rates for transportation, materials. Conference fees are based on the previous year's fees.

Budget 2018-2019					
CalGeo Budget 2018-2019			Geowall Budget 2018-2019		
#	ITEM	COST	#	ITEM	COST
Equipment and Materials			Equipment and Materials		
1	Food for General Meetings	\$800.00	1	Kraft Paper Materials	\$80.00
2	Outreach Supplies	\$360.00	2	Construction Supplies	\$300.00
3	Membership Packages	\$800.00	3	Sandbox	\$200.00
4	Events	\$500.00			
	Total	\$2,460.00		Total	\$580.00
Annual Conference: 2 Students			National Competition: 6 Students		
5	Airfare	\$1,500	4	Registration	\$1,350.00
6	Hotel	\$750.00	5	Airfare	\$3,600.00
7	Food	\$200.00	6	Hotel	\$1,000.00
8	Car rental	\$100.00	7	Food	\$250.00
	Total	\$2,550.00	8	Car rental	\$175.00
			9	Shipping	\$350.00
				Total	\$6,725.00
			Regional Competition: (PSWC)		
			10	Registration/Hotel	\$1,300.00
			11	Gas/Travel	\$200.00
			12	Food	\$200.00
			13	Other	\$600.00
				Total	\$2,300.00
Total CalGeo Cost		\$5,010.00	Total Geowall Cost		\$9,025.00
Total Academic Cost: \$14,035.00					

Sponsorship Packages

Bronze Level Sponsor: *Investment between \$1 and \$499*

- Personal letter of thanks from CalGeo
- Recognition on our membership shirts with an organization logo
- Logo and website link on our website
- Recognition on our team's sandbox with a three (3) inch organization logo



Silver Level Sponsor: *Investment between \$500 and \$999*

- Personal letter of thanks from CalGeo
- Recognition on our membership shirts with an organization logo
- Logo and website link on our website
- Recognition on our team's sandbox with a four (4) inch organization logo
- Logo on the back of the competition team shirt
- Two (2) GeoWall team shirts



Gold Level Sponsor: *Investment equal to \$1000 or more*

- Personal letter of thanks from CalGeo
- Recognition on our membership shirts with an organization logo
- Logo and website link on our website
- Recognition on our team's sandbox with a six (6) inch organization logo
- Logo on the back of the competition team shirt
- Four (4) GeoWall Team T-Shirts
- Sponsor recognition club and team Photo



Sponsorship Benefits

ORGANIZATION PROMOTION

The ASCE Pacific Southwest Regional Conference (PSWC) and the Geotechnical Frontiers 2018 conference is attended by educators, professionals, and students, both undergraduate and graduate, from all throughout the nation. The GeoWall competition will be attended by hundreds of young engineering students

TAX DEDUCTIONS

All donations are made to the Cal Poly Pomona Foundation, Inc. which is a public-benefit charitable-education organization under the provisions of the California Revenue and Taxation Code, Section 23701(d) and the United States Internal Revenue Code, Section 501(c)(3).

LOGO PLACEMENT

Our club and team will display a logo of your choice, displayed in the best possible format on the appropriate competition items.

Cal Poly Pomona CalGeo Sponsorship & Donation Form

Please fill out this form and return to the address listed below. Thank you!

Company Name:

Contact Person:

If no name is supplied, you will remain as an anonymous donor.

Company Address:

City, State:

Zip Code:

Phone Number:

Email Address:

Type of Donation: Cash Check

Amount Donated:

Additional Comments or Information:

Please make out all checks to:

“Cal Poly Pomona Foundation, Inc”

On *MEMO* line, please fill in: **CalGeo**

Address:

Attn: Civil Engineering CalGeo
Civil Engineering Department
California State Polytechnic University, Pomona
3801 West Temple Avenue
Pomona, California 91768

**THANK YOU FOR SUPPORTING
CalGeo!**

Please send your high-resolution
color and black and-white logos to
cppgeowall.fundraising@gmail.com
All materials will be sent for your
approval before going to print.

For questions, please contact:

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