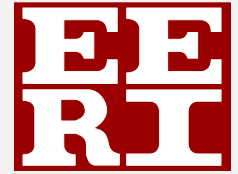


# 2017-2018 ANNUAL REPORT

## California State University, Sacramento Student Chapter

### of the Earthquake Engineering Research Institute



Report Date: May 27, 2018

This report summarizes the membership and activities conducted by California State University, Sacramento Student Chapter of the Earthquake Engineering Research Institute during the 2017-2018 academic year.

#### MISSION & GOALS

The primary purposes of EERI at California State University, Sacramento are the following:

- to educate students about earthquake hazards through guest speakers and access to resources maintained by the student chapter.
- to provide an opportunity for students interested in earthquake hazard reduction to meet and exchange ideas.
- involvement in the Sacramento EERI Chapter and Reconnaissance committee.
- to participate in the undergraduate seismic design competition.

#### MEMBERSHIP

The California State University, Sacramento Student Chapter had a total of 14 members in 2017-2018.

#### OFFICERS

The Board consisted of the following members:

Role	Name	EERI Member Number	Email	Student Status
President	Kylie Ahlstrand	18183	kylie.ahlstrand@gmail.com	Undergraduate student
Vice President	Brian Bertain	19948	bbertain3951@gmail.com	Undergraduate student
Treasurer	Lan Nguyen	19551	nttlan266@gmail.com	Undergraduate student
Secretary	Francisco Rodriguez	218885915	frodr06@gmail.com	Undergraduate student
Historian	Juan Zermeno	724394901	zermenojc17@gmail.com	Undergraduate student

Board meetings were held on a regular basis and were used to plan events such as general meetings, special events, fundraising, and the EERI 2018 SDC 2018.

#### FACULTY & INDUSTRY ADVISORS

**Faculty Advisor:** Julie Fogarty  
Email: fogarty@csus.edu

**Industry Advisor:** Fred Turner

Email: turner@stateseismic.com

## MEMBERS

A complete list of members is shown below.

Name	EERI Member Number	Email	Student Status
Kylie Ahlstrand	18183	kylie.ahlstrand@gmail.com	Undergraduate student
Brian Bertain	19948	bbertain3951@gmail.com	Undergraduate student
Lan Nguyen	19551	nttlan266@gmail.com	Undergraduate student
Francisco Rodriguez	218885915	frodr06@gmail.com	Undergraduate student
Martin Martinez	219229037	mmrtzn10@gmail.com	Undergraduate student
Juan Zermeno	724394901	zermenojc17@gmail.com	Undergraduate student
Nathaniel Wilson	724394895	nwwilson322@gmail.com	Undergraduate student
Inna Radova	724394903	innaradova@csus.edu	Undergraduate student
Kevin Escobedo	724394892	kevin.escobedo7@gmail.com	Undergraduate student
Anjali Kumar	21377	anjalikumar@csus.edu	Undergraduate student
Vongsri Vang	724394893	vongsrivang@csus.edu	Undergraduate student
Erandy Perez	21635	erandy1212@yahoo.com	Undergraduate student
Harpreet Gill	724394894	harpreetgill@csus.edu	Undergraduate student
Jason Quitugua		jasonquitugua@csus.edu	Undergraduate student

## BUDGET & FINANCIALS

The following is a list of the budget for 2016- 2017:

Expense	Amount
Travel	\$2000
Lodging	\$1750
T-Shirts	\$300
Registration	\$1600
Food	\$1000
Materials & Supplies	\$1000
Misc.	\$500
<b>Total</b>	<b>\$8,150</b>

The following is a list of financial sponsors for California State University, Sacramento Student Chapter:

Sponsor Name/Organization	Contact Person	Amount
IRA Funding (Associated Students, Inc.)	Lisa Dalton, Executive & Board Associate	\$3305
DOC Funding (California State University, Sacramento)	Dr. Kevan Shafizadeh, Associate Dean of Engineering and Computer Science	\$1200
National Championship Fund	Lisa Dalton, Executive & Board Associate	\$400
Jennifer Thornburg	--	\$300
Fred Turner	--	\$400

Without the support of our sponsors, the EERI events would not be possible. Our student chapter would like to personally thank Fred Turner, Jennifer Thornburg, and the Northern California EERI Chapter for contributing to our travel fund for the EERI SDC 2017.

## CHAPTER ACTIVITIES

### REGULAR CHAPTER MEETINGS

General meetings were held at the beginning of every semester. We held speaker meetings in conjunction with the Sacramento EERI Chapter meeting every month. General meetings start with announcements and general information, and then the time is passed over to the speaker for 45 min to an hour.

#### **Fall 2017**

##### **September 13th, 2017**

Speaker: Kylie Ahlstrand

Topic: EERI Informational Meeting

Attendance: 12



#### **Spring 2018**

##### **February 7th, 2018**

Speaker: Kylie Ahlstrand

Topic: EERI Informational Meeting

Attendance: 16

##### **March 28th, 2018**

Speaker: Maryann Phipps

Topic: How to Design a Good Building  
(and how to be a great engineer)

Attendance: 25

### FRIEDMAN FAMILY VISITING PROFESSIONAL or DISTINGUISHED LECTURE VISIT

##### **March 28th, 2018**

Speaker: Maryann Phipps

Topic: How to Design a Good Building  
(and how to be a great engineer)

Attendance: 25

<b>TIME:</b>	<b>ACTIVITY:</b>
5:00 PM – 5:30 PM	Student Chapter President meets & welcomes Visiting Professional to campus
5:30 PM – 7:00 PM	Maryann Phipps lectures on How to Design a Good Building (and how to be a great engineer). There was also a Q&A session before and after the presentation.

Maryann Phipps, S.E. is the President of Estructure located in Oakland, California. Her presentation was titled, "How to Design a Good Building (and how to be a great engineer)." The presentation revolved around the essentials of a great civil engineer and the expectations of a civil engineer in a professional work environment. Phipps discussed the importance of diversity and ethics. She began her presentation by introducing herself and giving a brief description of her area of expertise, she also had everyone in attendance do the same. She did this to emphasize diversity by using our own chapter as an example. She went on to explain that diversity is important to ensure a project meets safety specifications as it requires various areas of expertise to account for the potential hazards that civil engineers may not immediately identify. She wraps up her presentation by emphasizing the importance of ethics in our work and that we must have a firm grasp of the importance of our work in any project. Also, to be aware of our limits of our specialty and acknowledge the importance of having a wide array of specialists, not just engineers, when taking on any project.

## College of Engineering and Computer Science Fall Rally

### **September 13th, 2017**

The main purpose of this event was to recruit new members to the club. All engineering or computer science clubs participated in this event. EERI members helped run a booth to answer questions for prospective members.

## Future Engineers Day

### **December 7th, 2016**

EERI and PCI co-hosted an event that hosted over 80 elementary students. With the help of 10 EERI and PCI student members, a competition was created for the children. The children created structures out of K'Nex, and then tested on the shake table. The children were excited to have a hands-on project and were able to come up with very creative solutions.

## Engineering Expo

### **March 11th, 2017**

Five members help run a booth at the Engineering Expo at Sacramento State University. The booth showed off our structure and poster from the Seismic Design Competition 2017. The booth also had K'Nex for the grade school students to use and design a structure. The purpose of the event was to highlight the major engineering projects at Sacramento State University. The event also consisted of outreach to encourage children to study STEM majors.

## SEISMIC DESIGN COMPETITION TEAM

Brief description of SDC effort at your university.

Our SDC team has spent numerous hours toward our efforts in the competition. We started with preparing a proposal diligently to secure our spot in the competition. We also sought out sponsors for the competition by presenting at EERI Chapter Meetings. Every week we break up into groups and would work towards bringing the project together to create a structure that could withstand a simulated earthquake. We performed material testing, simulated testing, and shake table testing. Project management enabled a team dynamic that brought the project together for the 2017 SDC.

## SDC Team Members

A complete list of members is shown below.

<b>Name</b>	<b>EERI Member Number</b>	<b>Email</b>	<b>Role</b>
Martin Martinez	219229037	mmrtznz10@gmail.com	Project Manager, Construction Lead
Kylie Ahlstrand	18183	kylie.ahlstrand@gmail.com	Structural Design Lead, Proposal Lead
Brian Bertain	19948	bbertain3951@gmail.com	Calculation Lead
Lan Nguyen	19551	nttlan266@gmail.com	Member
Nathaniel Wilson	724394895	nwwilson322@gmail.com	Presentation Lead
Francisco Rodriguez	218885915	frodrr06@gmail.com	Poster Lead, T-Shirt Lead
Juan Zermeno	724394901	zermenojc17@gmail.com	Member
Inna Radova	724394903	innaradova@csus.edu	Member
Kevin Escobedo	724394892	kevin.escobedo7@gmail.com	Quality Control
Anjali Kumar	21377	anjalikumar@csus.edu	Member
Vongsri Vang	724394893	vongsrivang@csus.edu	Member
Erandy Perez	21635	erandy1212@yahoo.com	Member
Harpreet Gill	724394894	harpreetgill@csus.edu	Member

## SDC Team Financial Sponsors

A list of financial sponsors for the SDC team.

<b>Name</b>	<b>Email</b>	<b>Amount</b>	<b>Note</b>
Fred Turner	turner@stateseismic.com	\$500	
Jennifer Thornburg	jennifer.thornburg@conservation.ca.gov	\$500	

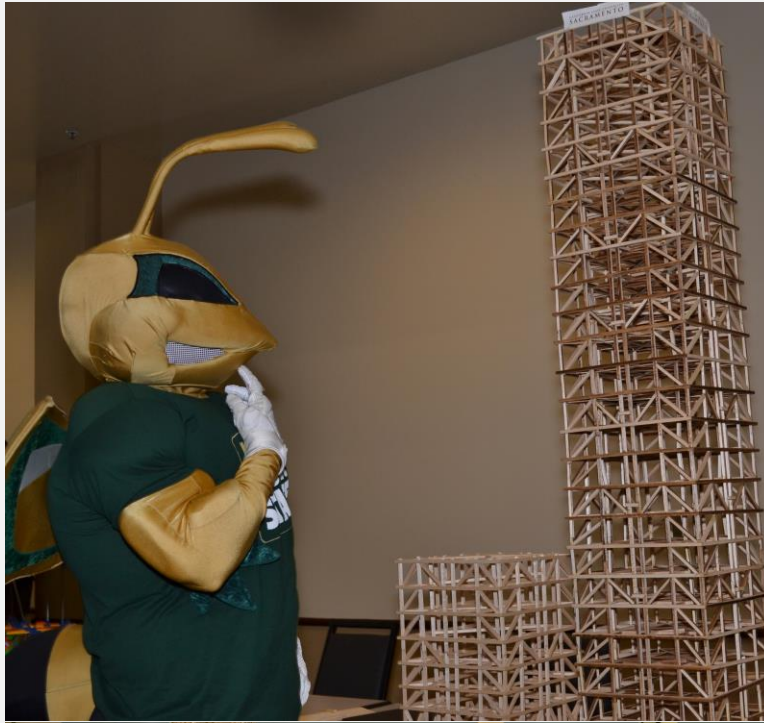
## Team results and lessons learned

This will be our third year competing in the SDC competition, and we have learned a lot about how we should improve for this upcoming competition. Future improvement will consist of a more thorough analysis of the competition rules in building restraints, due to calculations being incorrect last year.

As a team, we learned how to organize project management through time management skills and how to construct more efficiently. We hope the knowledge gained will help us place higher than last year where we ranked 25 out of 33.









## ELECTION & ELECTION RESULTS

An election for officers for the 2018-2019 academic year was held in May 2018. The table below shows the new officers appointed to the Chapter board who will take office on August 2018.

Role	Name	EERI Member Number	Email	Student Status
President	Inna Radova	724394903	innaradova@csus.edu	Undergraduate student
Vice President	Kevin Escobedo	724394892	kevin.escobedo7@gmail.com	Undergraduate student
Treasurer	Anjali Kumar	21377	anjalikumar@csus.edu	Undergraduate student
Treasurer	Francisco Rodriguez	218885915	frodr06@gmail.com	Undergraduate student
Secretary	Erandy Perez	21635	erandy1212@yahoo.com	Undergraduate student
Project Manager	Juan Zermeno	724394901	zermenojc17@gmail.com	Undergraduate student

## LIST OF ATTACHMENTS

- Item 1, flier for ECS Expo



**SAC STATE PRESENTS**

# Engineering & Computer Science EXPO

**SATURDAY MARCH 31ST 2018**

**NOON - 4PM, BALLROOM, UNIVERSITY UNION, CSUS**

Each year the College of Engineering and Computer Science and the ECS Joint Council hold the ECS Exposition to showcase our clubs' and students' work over the year. Exhibits from all ranges of engineering and computer science can be seen. Every year the participation grows and from this stems the continued inclusion of the local Sacramento community.

We strive to educate and inform fellow colleagues and the members of our community about engineering and its many diverse fields of study. With this, our clubs and students take on the responsibility to provide and perform activities that not only provide information, but also do so in a creative and fun environment for everyone.

For more information, please visit:  
<http://www.ecs.csus.edu/wcm/openhouse/expo.html>

This year, we are celebrating the theme:

"Infinite Possibilities,  
Boundless Opportunities"