

2017-2018 ANNUAL REPORT



Portland State University Student Chapter of the Earthquake Engineering Research Institute

Report Date: May 1, 2018

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

MISSION & GOALS

Our mission at EERI PSU is to reduce earthquake risk by advancing the science and practice of earthquake engineering and awareness, and to provide students with opportunities to develop leadership skills, network with professionals, and to gain experience in the earthquake engineering field. We aim to serve PSU and the greater Portland community with the purpose of sharing knowledge, exchanging experiences, and promoting education through various activities and events.

MEMBERSHIP

The Portland State University Student Chapter had a total of 19 members in 2007-2018.

OFFICERS

The Board consisted of the following members:

Role	Name	EERI Member Number	Email	Student Status
President	Melissa Preciado	19307	prec@pdx.edu	Undergraduate student
Treasurer	Carla Isiordia	N/A	isiordia@pdx.edu	Undergraduate student
SDC Captain	Joyelaine Sherman-Lewis	19321	jps4@pdx.edu	Undergraduate student
Secretary-Fall 2017, Winter 2018	Ke Lillah Slingluff	19085	keliilahvara02@gmail.com	Undergraduate student
Secretary-Spring 2018	Derek Gustafson	N/A	dng3@pdx.edu	Undergraduate student
Communications Coordinator	Mario Yescas II	20327	myescas@pdx.edu	Undergraduate student

Board meetings were held on a weekly basis for all three terms of the 2017-2018 school year.

FACULTY & INDUSTRY ADVISORS

List of advisors with contact information and affiliation.

Role	Name	Email
Faculty Advisor	Arash Khosravifar	karash@pdx.edu
Faculty Advisor	Diane Moug	dmoug@pdx.edu

MEMBERS

A complete list of members is shown below.

Name	EERI Member Number	Email	Student Status
Melissa Preciado	19307	prec@pdx.edu	Undergraduate student
Carla Isiordia	N/A	isiordia@pdx.edu	Undergraduate student
Joyelaine Sherman-Lewis	19321	jps4@pdx.edu	Undergraduate student
Ke Liilah Slingluff	19085	keliilahvara02@gmail.com	Undergraduate student
Mario Yescas II	20327	myescas@pdx.edu	Undergraduate student
Ana Tijerina Esquino	20326	act4@pdx.edu	Undergraduate student
Juan Barajas	20324	jbaraja2@pdx.edu	Undergraduate student
Tsun-Ming Jonathon Sze	19065	tsze@pdx.edu	Undergraduate student
Kimberly Williams	19969	kew5@pdx.edu	Undergraduate student
Linsey Daclison	20001	dlinsey@pdx.edu	Undergraduate student
Irvin Sandoval	N/A	ir4@pdx.edu	Undergraduate student
Kathleen Mitchell	N/A	kem3@pdx.edu	Undergraduate student
Evgeny Kozyaev	N/A	evgeny@pdx.edu	Undergraduate student
Derek Gustafson	N/A	dng3@pdx.edu	Undergraduate student
Erin Chew	N/A	echew@pdx.edu	Undergraduate student
David Hamilton	N/A	hamil2@pdx.edu	Undergraduate student
Weican Chen	N/A	chen23@pdx.edu	Undergraduate student
Miguel Sanchez	N/A	smiguel@pdx.edu	Undergraduate student
Michelle Guckenheimer	N/A	mag7@pdx.edu	Undergraduate student

BUDGET & FINANCIALS

The EERI PSU student chapter was primarily funded by PSU's Maseeh College of Engineering & Computer Science: Department of Civil & Environmental Engineering. We also worked with the PSU Foundation, outside companies, and attended professional networking opportunities to promote our student chapter and to ask for support.

List of financial sponsors of our chapter.

Sponsor Name/Organization	Contact Person	Amount
Maseeh College of Engineering & Computer Science: Department of Civil & Environmental Engineering	Ariel Lewis/Megan Falcone	\$3,500.00
George Sanders	George Sanders	\$200.00
ASCE PSU Student Chapter (Disaster Preparation Event Co-Host)	Alice Root	\$450.00
AEG PSU Student Chapter (Disaster Preparation Event Co-Host)	Andrew Trotter	\$1,000.00
Maseeh College of Engineering & Computer Science: Department of Civil & Environmental Engineering (Disaster Preparation Event Funding)	Ariel Lewis/Megan Falcone	\$1,076.50

CHAPTER ACTIVITIES

Over the 2017-18 school year for EERI PSU, we held many meetings for leadership, SDC, special events, and general meetings for all students. The objectives of these meetings were to establish our goals and plan on how to accomplish those tasks. The highlight of EERI PSU so far this year has been the Disaster Preparation Event that we organized and hosted. Details on our meetings and events are given in the following sections.

REGULAR CHAPTER MEETINGS

EERI PSU held leadership meetings once a week for the fall, winter, and spring school terms of the 2017-18 school year. At these meetings, the leadership officers discussed various matters relating to the EERI PSU student chapter, including: SDC, funding, future events and planning, ways to get new members, logistics of maintaining our student group status, and general leadership roles and duties.

In addition to the weekly EERI PSU leadership meetings, meetings were also held for our other larger projects and events. Our SDC team held weekly meetings during the school year, to work on the project and to discuss their progress and future tasks. During the three months prior to our large Disaster Preparation Event, we held meetings twice a month with all individuals who were involved, to plan the event. Our Friedman Family Visiting Professional was part of this event. Lastly, EERI PSU held general meetings once a term that were welcome to all PSU students. The goals of these meetings were to get new students involved in EERI, and to provide updates on our ambitions and progress.

FRIEDMAN FAMILY VISITING PROFESSIONAL or DISTINGUISHED LECTURE VISIT

We were privileged to have Jay Wilson, Resilience Coordinator for Clackamas County, Oregon, as our Friedman Family Visiting Professional. This year, we decided to invite our Friedman Family Visiting Professional to our large Disaster Preparation Event. A summary of this event is described in the following section.

Disaster Preparation Event – April 9, 2018

Our goal with the Disaster Preparation Event was to raise awareness for the potential dangers of earthquakes and other natural disasters in Portland and the Pacific Northwest. We aimed to educate the public about what to expect in case of the “Megaquake” and how to be ready. The event started with a screening of the OPB documentary *Unprepared*, which highlights Oregon's ill-equipped resources and infrastructure in the event of a large natural disaster. Following the screening was a discussion and Q&A session with our panelists: Jay Wilson, Allison Pynch, Emma Stocker, Ed Quesenberry, Dr. Franz Rad, and Tim Collins. The panelists had an extremely engaging and educational discussion about emergency preparedness. They were able to stem their conversation from questions that we got from the community prior to the event, and had a Q&A session with the audience that attended. Closing out the event was tabling from 13 different agencies, companies, and organizations that are heavily involved in disaster preparation and emergency management in the Pacific Northwest. In total we had over 240 members of the community come to the event, to learn about disaster preparation and the local agencies that are here to serve the Pacific Northwest during an emergency. Overall, the event was a huge success, thanks to the large turnout from the public community, and to the support from the many professionals and volunteers that helped with the event.

For more details on our Disaster Preparation Event, please visit our events page:

<https://eeripdx.wordpress.com/events/>



Chicas STEM Camp Event – July 24, 2017

EERI PSU gave a presentation and workshop to the Chicas youth development program for their STEM summer camp. Adelante Chicas is a youth development program empowering Latina girls to develop their leadership potential, adopt healthy lifestyles, develop cultural identity, and achieve academic success with high school graduation and college enrollment. EERI PSU students volunteered to teach a workshop named "Build Your Future", aiming at teaching girls about civil engineering and its presence in our everyday lives. The EERI students brought soil mechanics lab equipment, the ASCE PSU Steel Bridge, a shake table, survey equipment, a water resources display, and the balsa wood building from last year's competition. It was a successful and interactive event where the girls could go from station to station and learn about a different civil engineering specialty.



SEISMIC DESIGN COMPETITION TEAM

For this year's SDC team, we had a total of 19 members. While not all members were there every step of the way, they all contributed to the progress and success of this year's team. As discussed previously, we held weekly SDC meetings for the entire school year to work on the project. Most of the fall term was focused on writing the SDC design proposal and recruiting new members into the group. After being accepted into the competition, we started thinking and working on the design of our building, using mostly AutoCAD and SAP2000 as our structural analysis tool. Towards the end of winter term, we made a few testing pieces and constructed our first small-scale test model. Since last term, we have built and tested a few more test models. We are now starting to construct our full-size design as a prototype, and plan to adjust that design until it provides us the best results.

SDC Team Members

A complete list of members is shown below.

Name	EERI Member Number	Email	Role
Joyelaine Sherman-Lewis	19321	jps4@pdx.edu	SDC Team Captain
Carla Isiordia	N/A	isiordia@pdx.edu	
Melissa Preciado	19307	prec@pdx.edu	
Ke Liilah Slingluff	19085	kelilahvara02@gmail.com	
Mario Yescas II	20327	myescas@pdx.edu	
Ana Tijerina Esquino	20326	act4@pdx.edu	
Juan Barajas	20324	jbaraja2@pdx.edu	
Tsun-Ming Jonathon Sze	19065	tsze@pdx.edu	
Kimberly Williams	19969	kew5@pdx.edu	
Linsey Daclison	20001	dlinsey@pdx.edu	
Irvin Sandoval	N/A	ir4@pdx.edu	
Kathleen Mitchell	N/A	kem3@pdx.edu	
Evgeny Kozyaev	N/A	evgeny@pdx.edu	
Derek Gustafson	N/A	dng3@pdx.edu	
Erin Chew	N/A	echew@pdx.edu	
David Hamilton	N/A	hamil2@pdx.edu	
Weican Chen	N/A	chen23@pdx.edu	
Miguel Sanchez	N/A	smiguel@pdx.edu	
Michelle Guckenheimer	N/A	mag7@pdx.edu	

SDC Team Financial Sponsors

A list of financial sponsors for our SDC team.

Name	Email	Amount	Note
Maseeh College of Engineering & Computer Science: Department of Civil & Environmental Engineering	Ariel Lewis/Megan Falcone	\$3,500.00	
George Sanders	George Sanders	\$200.00	

Team results and lessons learned

This year's Seismic Design Competition is still yet to take place, in June 25th-29th. As such, there are no results to discuss. We are currently in the process of constructing our prototype models.

ELECTION & ELECTION RESULTS

Elections for the 2018-2019 academic year will be held later this year. Until that time, the current officers will remain in office.

FEEDBACK FOR EERI

We would like help with fundraising. Raising more funds will better enable us to host events, provide refreshments during events and meetings, and pay for SDC-related expenses.

Fliers for events:

Disaster Preparation Event

Hosted by EERI PSU, ASCE PSU, & AEG PSU

When: Monday, April 9th, 2018 @ 6:00pm to 9:00pm
Where: Smith Memorial Student Union (SMSU) Ballroom
1825 SW Broadway, Third Floor Rm 355

6-7pm: Viewing of *Unprepared*

The OPB documentary *Unprepared* highlights Oregon's ill-equipped resources and infrastructure in the event of a large natural disaster.



7-8pm: Panelist Discussion of PNW Preparedness

- Allison Pynch: PE, GE, Hart Crowser.
- Ed Quesenberry: SE, Equilibrium Engineers LLC
- Emma Stocker: Director, PSU Emergency Management
- Jay Wilson: Resilience Coordinator, Clackamas Co
- Dr. Franz Rad: PSU Civil Engineering Faculty
- Tim Collins, GE, Portland Water Bureau

8-9pm: Meet Local Agencies

- Portland Bureau of Emergency Management (**PBEM**)
- Portland Bureau of Transportation (**PBOT**)
- Portland Water Bureau (**PWB**)
- Neighborhood Emergency Team (**NET**)
- Seismic Retrofitting companies and more!



CONTACT US:

<https://www.facebook.com/EERIPSU/> | eeri.pdx.edu@gmail.com | eeripdx.wordpress.com

Chicas STEM Camp Event:



