

2017-2018 ANNUAL REPORT

Rice University Student Chapter

of the Earthquake Engineering Research Institute



Report Date: May 14, 2018

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

MISSION & GOALS

As Rice University is located in Houston, earthquakes may not have pre-eminence in our minds like hurricanes do, but we are the United States and part of a global community. Natural disasters of all kinds need addressing by our burgeoning engineers and researchers. Thus, we in the EERI-RU organization aspire to bring awareness to our community and provide outreach to young students in high-schools and middle schools.

MEMBERSHIP

The Rice University Student Chapter had a total of 8 members in 2017-2018.

OFFICERS

The Board consisted of the following members:

Role	Name	EERI Member Number	Email	Student Status
President	Carl Bernier	17124	cb36@rice.edu	Graduate student
Vice President	Roger Paredes	17665	rlp4@rice.edu	Graduate student
Treasurer	Hesam Talebiyan	19770	ht20@rice.edu	Graduate student
Secretary	Sushreyo Misra		sm95@rice.edu	Graduate student
Event Coordinator	Sutanu Bhowmick		sb70@rice.edu	Graduate student
Social Chair	Ao Du		ad62@rice.edu	Graduate student

FACULTY & INDUSTRY ADVISORS

Advisor type	Name	Institution	Affiliation	Email
Faculty	Dr. Jamie Padgett	Rice University	Associate Professor	jamie.padgett@rice.edu
Industry	Mr. Paul Summers	Simpson Gumpertz & Heger	Senior Principal	PBSummers@sgh.com

MEMBERS

A complete list of members is shown below.

Name	EERI Member Number	Email	Student Status
Carl Bernier	17124	cb36@rice.edu	Graduate student
Jaden Gallegos	19356	jag19@rice.edu	Undergraduate student
Majid Ebad-Sichani	17902	me15@rice.edu	Graduate student
Monica Julian	19354	mj27@rice.edu	Undergraduate student
Clayton Malcomb	18603	cdm7@rice.edu	Undergraduate student
Roger Paredes	17665	rlp4@rice.edu	Graduate student
Hesam Talebiyan	19770	ds44@rice.edu	Graduate student
Navya Vishnu	18105	nv7@rice.edu	Graduate student

BUDGET & FINANCIALS

Briefly describe the chapter budget and financials, with text description or any tables and charts as needed.

List any financial sponsors of your chapter.

Sponsor Name/Organization	Contact Person	Amount
Rice University - Student Activities Fund	Hesam Talebiyan (Treasurer of club)	\$180
Rice University - Student Activities Fund	Hesam Talebiyan (Treasurer of club)	\$130

CHAPTER ACTIVITIES

Describe chapter meeting activities including, at a minimum, a summary statement of the meetings held during academic year, giving the date of each, the attendance, the principal meeting activity, the invited speaker (if there is one) and his or her subject, and any other pertinent information about the meeting activity. Consider including images for each activity in this section, and consider adding any fliers, documents or other supporting information in an appendix as needed. The section headers below are intended to be a guide to help you organize information about your activities, however feel free to edit them as necessary to best reflect your chapter's activities.

REGULAR CHAPTER MEETINGS

EERI-RU Info Session (October 19, 2017)

This was an info session for EERI –RU student chapter members and prospective members. At the event we discussed the agenda for this year, introduced the new office bearers and also encouraged undergraduate students to form a team to participate in this year's EERI Seismic Design Competition. The event was also used as a platform to get new suggestions and ideas for this year's activities. See attached Figure 1 below.

EERI-RU Seminar Session (September 7, 2017)

Mr. Paul Summers, senior principal at Simpson Gumpertz & Heger, was supposed to visit Rice University on September 7, 2017 for a seminar. This seminar had to be cancelled at the last minutes due to Hurricane Harvey. The seminar will be rescheduled during summer or fall 2018.

EERI-RU Seminar Session (November 20, 2017)

Dr. Venkata Srivishnu Vemuru, a postdoctoral fellow at Rice university gave a seminar on November 20, 2017 (see Figure 2 below). His expertise is in structural dynamics with specific focus on modeling of nonlinear phenomenon. His talk covered his past and actual research such as the modeling and design of elastomeric bearing and negative stiffness devices, and the use of nanotechnology for strain sensing. This seminar was well attended by graduate student from civil engineering at Rice.

EERI-RU End of Year Session (May 14, 2018)

The meeting summarized the activities of the student chapter for the year 2017-18 and the new officers for year 2018-19 were elected. Following are the new officers:

President: Hesam Talebiyan
 Vice-president: Carl Bernier
 Treasurer: Jayant Patil
 Secretary: Roger Parades

SEISMIC DESIGN COMPETITION TEAM

Seismic design competition (SDC) is one of the major activities that the undergraduate students from the department of Civil and Environmental Engineering participate in. The preparations for SDC begin early fall with recruitment of new students to the team. Even before the problem statement is released the students start learning finite element packages such as SAP2000, which are used to model the building. As soon as the problem statement is released, the team starts working on the conceptual design and the proposal. Following the initial stages of conceptual design, the team works on finalizing the design and starts to build the physical model for the competition.

SDC Team Members

A complete list of members is shown below. S

Name	EERI Member Number	Email	Role
Clayton Malcomb	18603	cdm7@rice.edu	Team Captain
Jaden Gallegos	19356	jag19@rice.edu	Structural Team
Monica Julian	19354	mj27@rice.edu	Structural Team

SDC Team Financial Sponsors

A list of financial sponsors for the SDC team.

Name	Email	Amount	Note
Rice University		\$3,000	Different departments and organizations inside Rice sponsored the SDC team

Team results and lessons learned

The SDC will be held on June 26-29, 2018. To date, the team designed and modeled (SAP2000) the structure and are currently working to construct and assemble it (see Figure 3).

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	Hesam Talebiyan	19770	ht20@rice.edu	Graduate student
Vice President	Carl Bernier	17124	cb36@rice.edu	Graduate student
Treasurer	Jayant Patil		jayant.patil@rice.edu	Graduate student
Secretary	Roger Parades	17665	rlp4@rice.edu	Graduate student

LIST OF ATTACHMENTS

Included at the end of this report are various attachments to supplement the information included above. A list of the attachments is included below:

- Item 1, Pictures from various events

Item 1: Pictures from various events



Figure 1: EERI-RU Info-session (October 19, 2017)



Figure 2: EERI-RU Seminar Session by Dr. Venkata Srivishnu Vemuru (November 20, 2018)



Figure 3: Assembly of the SDC structure