



Earthquake Engineering Research Institute

University of Illinois at Urbana-Champaign
(UIUC-EERI)

Annual Report 2012-2013

Student Chapter of EERI at the University of Illinois at Urbana-Champaign (UIUC-EERI)

GENERAL INFORMATION:

Address:

**205 North Matthews Avenue
Urbana, IL 61801**

Executive Officers 2012-2013:

President: Ryan Leigh

Vice President: Doug Spitzer

Secretary: Daniel Biernat

Treasurer: Timothy P. Tan

SDC Captain: Hong Kim

Graduate Advisoer: Evgueni Filipov

Website:

<https://sites.google.com/a/illinois.edu/eeri/>

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Faculty Advisor:

Professor Youssef Hashash

Student Chapter Members:

Kevin Kho
Ryan Chan
Ploychompu Pattana-Anek
Prin Phanich
Brian Li
Min Yin
Tim Van Der Aa
Sally Jones

Student Chapter Activities Calendar:**(1) Seminars and Guest Lectures**

- October 10, 2012 – Seminar by Ramin Golesorkhi
- October 17, 2012 – Seminar by Professor Elnashai
- October 24, 2012 – Seminar by Professor Abrams
- November 15, 2012 – Seminar by Professor Thomas O'Rourke

(2) SDC Team Meetings

- September 20, 2012 – SDC General Meeting
- January 24, 2013 – SDC Building Construction
- February 15, 2013 – UIUC-EERI Seismic Design Competition

(3) Social Activities

- September 5, 2012 – Engineer's Night 2012
- September 12, 2012 – CEE Freshman Kickoff 2012

(4) Outreach

- March 8-9, 2014 – Engineering Open House

2012-2013 UIUC-EERI Activities:

September 5, 2012
UIUC EERI Chapter participated in Engineer's Night 2012 on Bardeen Engineering Quad. The booth had several interesting posters and displays to attract new members, especially freshman students new to campus. The officer team advertised the various events planned for this semester and informed undergraduates of the opportunity to get involved with the annual seismic design competition.
September 12, 2012
UIUC EERI made an appearance at Civil & Environmental Engineering Freshman Kickoff in the Newmark Building Engineering Laboratory. This event targets freshmen that may not have been able to attend Engineer's Night. Students that visited the EERI table were informed about SDC and other chapter events.
September 20, 2012
The Seismic Design Competition team held its first meeting. New members came to learn more about the competition from SDC veterans and this year's team captain. The UIUC EERI faculty advisor, Professor Hashash, came by to welcome the new members and give a brief introduction of the organization.
October 10, 2012
Professional guest lecturer, Ramin Golesorkhi, gave a lecture titled "New Ground Motion Provisions of ASCE 7-10 – A Perspective." Ramin is Vice President / Senior Associate at Treadwell & Rollo, A Langan company with offices in California. His lecture included a discussion on the importance of communication between those who determine earthquake ground motions and the structural engineers who design using these motions.
October 17, 2012
Professor Amr Elnashai, current department head of Civil & Environmental Engineering (at the time of lecture), gave a lecture on the fundamentals of earthquake engineering to the SDC team. He led a very useful discussion on how earthquake spectra are created and used in practice.
October 24, 2012
The SDC team met with Professor Abrams who provided a brief lecture on earthquake engineering and particular concepts that could be applied to structural design for the competition. The lecture focused on ways to improve structural designs for seismic loading scenarios.

November 15, 2012

EERI Distinguished lecturer, Professor Thomas O'Rourke, visited the University of Illinois to give a seminar. All graduate and undergraduate students who are interested in earthquake engineering were welcomed to attend the lecture.

January 24, 2013

The SDC Team met to begin the construction of the final structural balsa wood model for the competition that would take place mid-February in Seattle. The structure was specifically designed to handle the motions of the shake table, which had been modeled from past major earthquakes.

February 15, 2013

The seismic design team submitted their structure design to the test on February 5th, 2013. You can view the video of the structure here: http://www.youtube.com/watch?v=VD4cTZ_FatA.

Below is a photo of the UIUC SDC team, 2012-2013.



(Left to right) Brian Li, Prin Phanich, Hong Kim (*Captain*), Pink Pattana-Anek, Min Yin, Sally Jones and Ryan Chan

March 8-9, 2013

UIUC EERI teamed up with NEES@Illinois to participate in the annual Engineering Open House, where around 20,000 high school students from around Illinois visited the 250 engineering booths. The EERI/NEES booth promoted earthquake knowledge amongst visitors, and young children had the chance to make their "own" seismograph by jumping on a platform equipped with an accelerometer.