

Earthquake Engineering Research Institute

University of Minnesota Student Chapter



Annual Report: June 2013 – June 2014

General Information

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| | Secretary | Qingzhi Liu | liux1503@umn.edu |
| | Treasurer | Alireza Nojavan | nojav002@umn.edu |
| | Competition Coordinator | Catherine Johnson | joh04739@umn.edu |
| | Faculty Advisor | Catherine French | cfrench@umn.edu |

Student Chapter Roster for 2013-2014:

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| <u>Officers-Elect:</u> | President | Davide Giannuzzi | giann043@umn.edu |
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| | Competition Coordinator | Charles Vermace | verma035@umn.edu |
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Meetings

| Date | Business |
|-----------------------------|--|
| Tuesday, October 1, 2013 | Introduction to the student chapter activity. Recruit members. |
| Thursday, November 7, 2013 | Assemble teams for Seismic Design Competition, Paper Truss and K'NEX Bridge Competition. |
| Tuesday, December 10, 2013 | Paper Truss Competition results announcement; Discussion on the Preliminary building design for the Seismic Design Competition. |
| Wednesday, February 5, 2014 | Summary of the chapter outreach - Creativity Festival; Organize the brown bag lunches at local design companies. |
| Friday, April 25, 2014 | Update on the building design for the Seismic Design Competition; Summary of the chapter outreach – Tech Fest @ The Works and Spring STEM Student Organization Fair. |
| Tuesday, May 6, 2014 | Election of officers for 2014-2015. |

Activities

Chapter Outreach - Minnesota State Fair Civil Engineering Booth August 27, 2013

The EERI UMN student chapter promoted the understanding of earthquake engineering at the University of Minnesota College of Science and Engineering booth at the Minnesota State Fair. The booth was run by volunteers from the student chapter who conducted demonstrations covering shake-table testing of K'nex buildings, make-your-own-earthquake (MYOE) seismographs, and soil liquefaction.



Testing of K'nex buildings



MYOE



Soil liquefaction

EERI Webcast: Resilience: An Engineering Challenge – Mary Comerio October 14, 2013

The EERI UMN student chapter organized members to attend the EERI Webcast from UC Berkeley.

EERI speaker:

November 15, 2013

The EERI student chapter hosted Mark Bowman from Purdue University, who presented a sponsored breakfast seminar on ‘Shear Yielding Strength for Welded Lap Splice Connections.’

Chapter outreach - Math and Science Family Fun Fair

November 16, 2013

The student chapter volunteered to run exhibits and activities at the College of Science and Engineering Math and Science Family Fun Fair, an event aimed at promoting the sciences to primarily grade school students. Activities included those from the Minnesota State Fair exhibit, but with a strong emphasis toward shake-table testing of structures constructed by the grade-school attendees.



EERI Chapter in the Math and Science Family Fun Fair

International Paper Truss Competition

November 30, 2013

The student chapter entered the Paper Truss Competition, a competition among universities from Colombia, Turkey, Japan, and the United States. Three teams entered the competition: grad students, a team from the shake table competition group, and a team from CE 5414.



International Paper Truss Competition

Chapter outreach – Tech Fest @ The Works

February 8, 2014

The student chapter volunteered to run exhibits and activities at Tech Fest @ The Works in Bloomington, MN.

EERI speaker

April 25, 2013

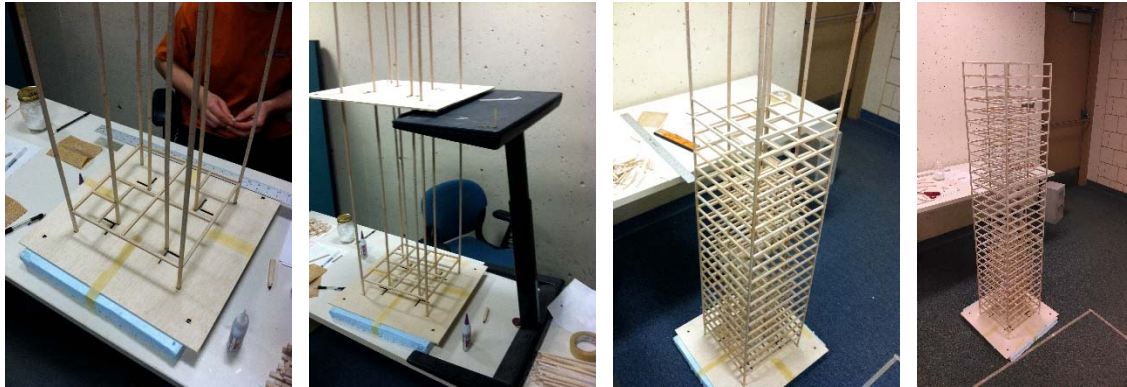
The EERI student chapter hosted Ms. Laura Amundson from Parsons Brinckerhoff, who presented a sponsored breakfast seminar on ‘Maintaining Minnesota’s Unique Bridge Inventory.’

Seismic Design Competition

May and June, 2014

A team of undergraduate students from the EERI student chapter placed in the top 10 for their proposal submitted to the national EERI Seismic Design Competition (SDC) to be held at the EERI Annual Meeting in Anchorage, AK. The team of seven will attend the competition fully funded with corporate sponsorship from the following: MN Structural Engineers Association; AEC Engineering; Mattson, Macdonald, and Young Structural Engineers; MTS; HGA Engineers; BKBM Engineers; Van Sickle, Allen and Associates; Parsons Brinckerhoff; Ericksen Roed and Associates.

EERI officers and a representative from the SDC shake table team visited four of the corporate sponsors for a brown bag lunch session. During the visit, presentations were made to give a background on the EERI student group and upcoming competition in Alaska as well as current earthquake related research at the University of Minnesota.



Initial Construction of Balsa Wood Building