OpenSees Development

Workshops and Monthly Meetings

- 2016 QuakeCoRE OpenSees Training Workshops
- 20 July 2016 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 17 August 2016 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 21 September 2016 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 19 October 2016 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 2017 QuakeCoRE OpenSees Training Workshops
- 11 April 2017 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 09 May 2017 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 13 June 2017 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 11 July 2017 - Webconference - Community discussion for QuakeCoRE OpenSees research
- 08 August 2017 - Webconference - Community discussion for QuakeCoRE OpenSees research

OpenSees Tools

Downloading and Setting-Up OpenSees on Windows and Mac OS X: Step-by-step instructions

OpenSees and Other Useful Links

OpenSees homepage: http://opensees.berkeley.edu

OpenSees Wiki (command manual, examples, and more): http://opensees.berkeley.edu/wiki/index.php

OpenSees message board: http://opensees.berkeley.edu/community/index.php

Instructions for anonymous SVN access: http://opensees.berkeley.edu/OpenSees/developer/svn.php

OpenSees Navigator: http://openseesnavigator.berkeley.edu

BuildingTcl: http://opensees.berkeley.edu/wiki/index.php/BuildingTcl

GiD Pre- and Post-Processing Tool: http://www.gidhome.com

DesignSafe-CI: https://www.designsafe-ci.org

GiD+OpenSees: http://gidopensees.rclab.civil.auth.gr/

Build-X: https://www.buildx4opensees.eu/

2016 OpenSees Student Innovation Prizes

We are pleased to announce the winners for the first annual QuakeCoRE OpenSees Student Innovation Prize Competition. Two $500 prizes were awarded in conjunction with the 2016 QuakeCoRE Annual Meeting recognizing significant earthquake engineering research that has been undertaken using the OpenSees finite element analysis platform. The winning submissions were those that best fit the judging criteria of “the most significant and/or practically-useful contribution to earthquake engineering analysis using OpenSees.”

2016 QuakeCoRE OpenSees Student Innovation Prize Winners:

Ericson Encina Zuniga (University of Auckland) - Ericson developed a number of tools to facilitate the modeling beam elements using fibre section models to define the cross-sectional response in OpenSees. These tools include Excel sheets that allow the user to easily understand and define the geometric properties of the fibre section models and to interactively define the uniaxial constitutive models for the concrete and reinforcing steel portions of the section, as well as a series of tcl procedures to aid in recording information from the fibre sections during analysis and to automatically troubleshoot convergence issues. The files and tools developed by Ericson are available here.

James Maguire (University of Wollongong and University of Auckland) - James created a 3D visualisation tool in python that can be used to examine the deformed shape of an OpenSees model. This tool pulls the nodal coordinates from the OpenSees model file and reads the displacements from the recorded output. James' visualisation tool can be used to create interactive plots for 3D models via a series of slider that allow the user to increase /decrease the deformation magnification scale, change the camera viewpoint, and incrementally cycle through the time steps for a dynamic analysis. The visualisation tool developed by James is available here. The text file *_ModelVisualiser description_.txt* provides an overview of the tool and describes the python packages needed to run it.