



Hybrid Simulation Workshop

August 20, 2009

UC Berkeley, Richmond Field Station

nees@berkeley Equipment Site

Workshop URL: <http://nees.berkeley.edu/workshop/>

Hybrid simulation is a set of methods for examining the seismic response of structures using a hybrid model comprised of both physical and numerical sub-structures. This workshop on hybrid simulation is for NEES researchers, both current and future. It is being held in conjunction with the OpenFresco User Workshop on August 21, 2009. Attendees will:

- Learn the basics of the hybrid simulation method.
- Learn about OpenSees, OpenFresco and Navigator, our basis tools.
- Conduct a hybrid simulation at the nees@berkeley Equipment Site.
- Be able to use hybrid simulation in their NEES and non-NEES projects.
- Prepare to develop new hybrid simulation tests and algorithms.

We will review the basics of hybrid simulation, including similitude requirements for model design, model implementation including integration methods, and simulation result interpretation. Then, we will demonstrate how hybrid simulation is implemented at nees@berkeley using our hardware and OpenSees and OpenFresco software. The attendees will have a unique opportunity to develop a hybrid model and, with the help of our staff, implement and run a hybrid simulation at nees@berkeley. Throughout the workshop we will demonstrate how to use the nees@berkeley Equipment Site hardware and software portfolio and how to process and archive hybrid simulation data.

Application Procedure

Please apply at <http://nees.berkeley.edu/workshop/> by August 10, 2009. A \$50 workshop fee will cover the local transportation and workshop meals. The workshop dinner will be held on UC Berkeley Campus. Limited travel support, pending NEES approval, is available for graduate students, young post-doctoral researchers and tenure-track faculty at US schools.

Logistics

The workshop will be held at the nees@berkeley Equipment Site located at the UC Berkeley Richmond Field Station (<http://nees.berkeley.edu>). We will provide transportation from the Durant Hotel (Berkeley) to the Richmond Field Station. See the workshop webpages for more information.

Technical
Bozidar Stojadinovic
boza@ce.berkeley.edu
510-643-7035

Administration
Veronica Rodriguez
vrodriquez@berkeley.edu
510-665-3594

nees@berkeley URL: <http://nees.berkeley.edu>

Workshop URL: <http://nees.berkeley.edu/workshop/>