



Hybrid Simulation Workshop

February 21 & 22, 2008

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. 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 January 31, 2008. 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 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 negotiated a group rate with the Durant Hotel and will provide transportation from the hotel to the Richmond Field Station. Please refer to <http://nees.berkeley.edu/workshop> to find a list of hotels we recommend, and directions to arrive at the Richmond Field Station.

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

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

Administration
Ninh Trinh
ninht@berkeley.edu
510-665-3594