



# Hybrid Simulation Workshop

January 26–27, 2009

UC Berkeley, Richmond Field Station,  
*nees@berkeley* Equipment Site

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

Hybrid simulation is an experimental method 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 basic 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*. We will also 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 15, 2009. A \$50 workshop fee will cover the handouts, local transportation and workshop meals will be collected at the beginning of the workshop. The workshop dinner will be held on or near the 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. To receive reimbursement for airline travel, you *must* comply with the Fly America Act (use a US flag carrier). See the [travel support policy](#).

## 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 are negotiating a group rate at the Durant Hotel and will provide transportation from the hotel to the Richmond Field Station. Visit the workshop webpages for more information about accommodations and for maps and directions.

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

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