

NHERI@UC SAN DIEGO LARGE-SCALE GEOTECHNICAL SHAKE TABLE TEST PLANNING WORKSHOP
MAY 31, 2017; SAN DIEGO, CA
Objectives, Logistics & Agenda

Venue (open parking):

UC San Diego Englekirk Structural Engineering Center
 10201 Pomerado Road
 San Diego, CA 92131
 (see: <http://nheri.ucsd.edu/about/visit.shtml> for specific directions)

Hotel (out of town visitor accommodations):

Holiday Inn San Diego North Miramar
 9335 Kearny Mesa Road
 San Diego, CA 92126
 858-740-2006 Direct 858-578-7925 Fax

| Time | Duration (min) | Topic | Speaker |
|-------------|----------------|--|---|
| 8:00-8:30 | -- | Guest arrival and checkin, light breakfast provided | (Linda Johnson to facilitate) |
| 8:30-8:40 | 10 | Welcome, introductions, workshop objectives and schedule | Prof. Tara Hutchinson |
| 8:40-9:40 | 60 | NHERI@UC San Diego: NHERI team introductions, facility description and capabilities, past projects | Prof. Joel Conte |
| 9:40-10:00 | 20 | Opportunities for using Hybrid Simulation to investigate Soil-Structure-Interaction | Prof. Gilberto Mosqueda |
| 10:00-10:20 | 20 | Use of the NHERI facility for large-scale geotechnical testing | Prof. Ahmed Elgamal |
| 10:20-10:40 | 20 | Break | |
| 10:40-11:00 | 20 | Shake table testing of GRS bridge abutments | Prof. John McCartney |
| 11:00-11:20 | 20 | Experiences in Japan: Tsukuba and E-Defense Experiments | Dr. Akio Abe (Tokyo Soil Research, Tsukuba College) |
| 11:20-11:40 | 20 | Experiences in New Zealand: Geo- and Geo-structural observations | Prof. Alessandro Palermo (Univ of Canterbury) |
| 11:40-12:00 | 20 | Research planning in a nutshell | Prof. Tara Hutchinson |
| 12:00-1:00 | 60 | Facility tour | Prof Joel Conte & Darren McKay |
| 1:00-1:45 | 45 | Working lunch (define key thematic areas and teams) | All |
| 1:45-2:00 | 15 | Breakout group organization & instructions | Prof. Tara Hutchinson |
| 2:00-4:00 | 120 | Working groups disperse & prepare reports (3-4 groups) | All |
| 4:00-4:30 | 30+ | Summary of breakout groups, Q/A, workshop survey | All |

Final slides in (pdf format) are available to attendees here:

<https://drive.google.com/drive/folders/0BxsvpNYi2jxoSGM0ZG1TNGRGeHc?usp=sharing>

For those unable to attend physically, we will stream the meeting via Zoom:

<https://ucsd.zoom.us/j/808296619>

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Organizing Committee

The workshop is being organized by faculty and staff associated with the recently awarded NHERI experimental facility and colleagues in the Department of Structural Engineering at UC San Diego with domain expertise in the geotechnical engineering area. The chair of the committee is Professor Tara Hutchinson, who is also a co-principal investigator on the NSF NHERI@UC San Diego award. In addition, Profs Joel Conte (PI of the NHERI EF), Enrique Luco (Senior Personnel of the NHERI EF), John McCartney, Ahmed Elgamal, Gilberto Mosqueda (co-PI of the NHERI EF) and Dr. Ingrid Tomac are on the organizing committee and will offer technical presentations during the workshop. Technical staff assistance will also be provided by Mr. Darren Mckay (Site Operations Manager of NHERI EF) and Mr. Robert Beckley (IT Manager of NHERI EF)

Workshop Goals

The objectives of the workshop are to (1) help shape future research programs utilizing the unique geotechnical and geo-structural testing capabilities of the NHERI@UC San Diego facility and 2) facilitate collaborations amongst colleagues in geotechnical, structural, and earthquake engineering and thus support their interests to submit collaborative research proposals to the National Science Foundation Natural Hazards Engineering or other research funding solicitations. The workshop will open with a discussion of the capabilities of the NHERI at UC San Diego experimental facility, including particularly the infrastructure available for geotechnical/geo-structural testing (namely two large soil containers and associated soil monitoring instrumentation), offer a highlight of past projects conducted at the facility in this regard; and then involve group activities to advance research planning and encourage collaborations for utilizing the facility specifically for testing geo- and geo-structural systems.

The workshop will provide important presentations that include recommendations on how to plan for, budget and execute large-scale shake table experiments using the LHPOST. Speakers include previous users of the LHPOST including project PIs that have utilized the LHPOST soil container facilities, each of whom will discuss best practices based on their experiences with past projects. NHERI at UC San Diego project team members will also provide presentations describing the facility's technical capabilities, data and instrumentation resources, project management requirements, and other programmatic guidelines. In addition to the lectures, the workshop will include a tour of the facility.

Travel Reimbursements

Complete the attached reimbursement form. Submit to Ms. Alissa Farrell (afarrell@eng.ucsd.edu).