



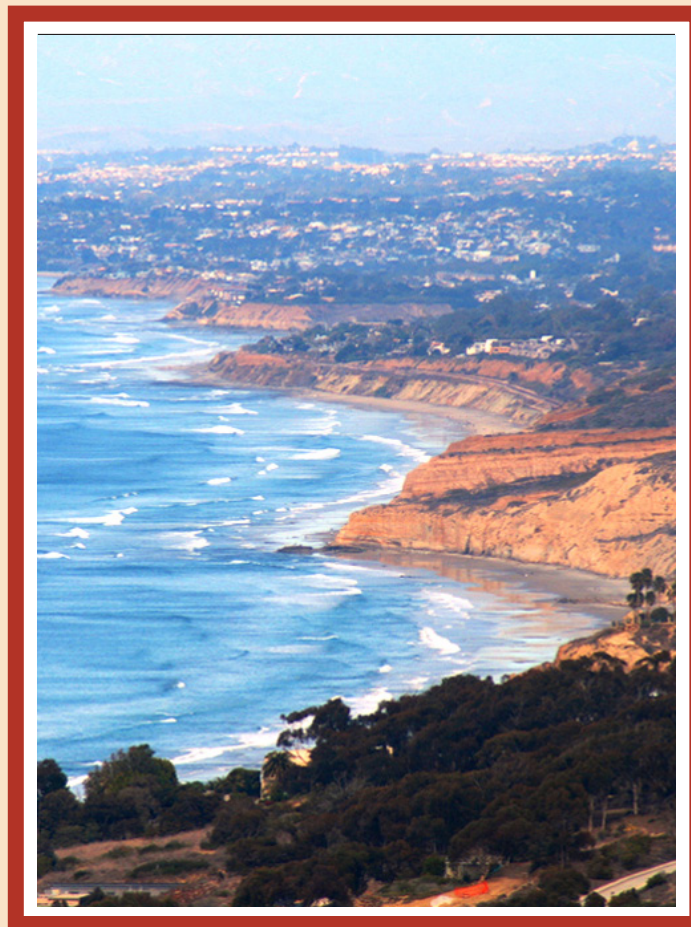
Cover photo: View of La Jolla shores from Mt. Soledad
(photo: Peggy Goodwin).

63rd Annual Meeting

2011 EERI ANNUAL MEETING

February 9-12, 2011 • La Jolla, California

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THEME: EARTHQUAKES WITHOUT BORDERS



February 9-12, 2011
Hyatt Regency Hotel,
La Jolla, California



Earthquake Engineering
Research Institute

63rd Annual Meeting

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THEME: EARTHQUAKES WITHOUT BORDERS

Wednesday, February 9, 2011

5:00–7:30 pm REGISTRATION OPENS

THE 8th ANNUAL UNDERGRADUATE SEISMIC DESIGN COMPETITION will be held throughout the meeting, organized by EERI's Student Leadership Council (SLC). The competition is an opportunity for undergraduate teams to design, analyze, fabricate (with balsa wood), and subject to earthquake motions a scale model of a high-rise office building. The Awards Ceremony will take place at 1:45 p.m. on Saturday. For competition rules, details, and entry information, visit: <http://slc.eeri.org/seismic.htm>. Co-sponsors: EERI, FEMA, Degenkolb Engineers, Kinometrics, PEER, Tobolski/Watkins Engineering (more to come).

5:30–7:00 pm **MEET THE MENTORS HOSTED ICEBREAKER:** New and student members are invited to join longstanding members for an informal get-acquainted icebreaker with complimentary snacks and a hosted bar.

Thursday, February 10, 2011

7:00 am ON-SITE REGISTRATION CONTINUES

8:00–10:30 am Opening Session

8:00–8:20 am **WELCOME AND OPENING STATEMENT**
L. Thomas Tobin, *President, EERI*

8:20–8:30 am **WELCOME**
Jorge Meneses, *Kleinfelder, Local Organizing Committee Chair*

8:30–10:30 am **PANEL: EFFECTS OF A REGIONAL EARTHQUAKE ACROSS THE INTERNATIONAL BORDER**
Based on recent experiences with the El Mayor-Cucapah earthquake, San Diego wildfires, and border issues after 9/11, this panel will address cross-border topics such as seismic risks, collaborative research needs, and policy and emergency response plans in the Southern California/Baja California region.

Moderator:
L. Thomas Tobin, *Tobin & Associates*

Panelists:
Jerry Sanders, *Mayor of San Diego (invited)*
Carlos Bustamante, *Mayor of Tijuana (invited)*
Thomas Rockwell, *San Diego State University*
Alfredo Escobedo Ortiz, *Civil Protection, State of Baja California*
Anthony Court, *A. B. Court & Associates, SEAOSD*

10:30–11:00 am BREAK (All breaks provide an opportunity to view the Student Design Competition in the Pavilion.)

11 am–12:30 pm **SURFING THE BIG WAVE: TSUNAMI RISK ACROSS OUR BORDER REGION**
What is the region's tsunami risk, and what are possible methods to mitigate it?

Moderator: Solomon Yim, *Oregon State University*

Speakers:
Mark Legg, *Legg Geophysical*
James Goltz, *Caltech*
Ian Robertson, *University of Hawaii*
Ronald Lane, *Office of Emergency Services, San Diego County*

12:30–2:00 pm **ANNUAL BUSINESS MEETING LUNCHEON**

2:00–4:00 pm **SHAKE, RATTLE AND ROLL**
What is the region's seismic risk? This multi-disciplinary session will address current research in seismic mitigation, policy, and practice.

Moderator: Diane Murbach, *City of San Diego*

Speakers:
What is the "Big One" in San Diego? *Pat Abbott, San Diego State University*

Nonstructural Issues Related to the Region's Risk: *Tara Hutchinson, UC San Diego*

Emergency Response Lessons Learned from San Diego Wildfires: *Javier Mainar, San Diego Fire-Rescue Department*

The Region's Efforts to Promote Seismic Safety, from a Policy Perspective: *Afsaneh Ahmadi, City of San Diego*

4:00–4:15 pm BREAK

4:15–6:00 pm **TECHNICAL & ADMINISTRATIVE COMMITTEE MEETINGS**

4:30–6:00 pm **YOUNGER MEMBERS AND STUDENTS**
Moderator: Christine Goulet, *PEER*
What are the various career paths in earthquake engineering? This session will feature successful individuals who took different paths to make their contribution.

6:00–7:30 pm **GENERAL RECEPTION AND POSTER SESSION***

7:00–8:00 pm **SUBSCRIBING MEMBERS' & MAJOR DONORS' RECEPTION**

*For poster requirements, see <http://www.eeri.org/site/meetings/2011-annual-meeting>.



2010 El Mayor-Cucapah earthquake: Collapsed wall of the Engineering Building of the Universidad Autónoma de Baja California, Mexicali campus.

7:00 am CONTINENTAL BREAKFAST FOR COMMITTEE MEETING PARTICIPANTS

7:00–8:30 am TECHNICAL AND ADMINISTRATIVE COMMITTEE MEETINGS

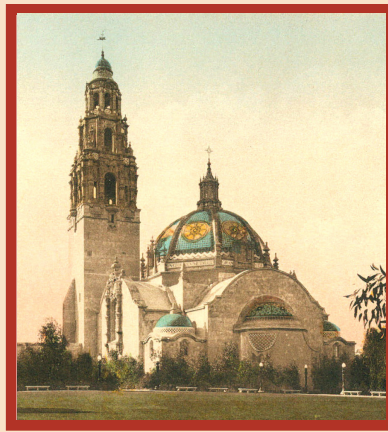
8:30–10:00 am **WHAT'S SHAKIN'?**
 This session will identify the local risk, strong motion record analysis, record selection and scaling issues, and code-based usage of records for seismic design.
Moderator: Benson Shing, *UC San Diego*
Speakers:
 Long-Period (0-2Hz) Ground Motion Simulations for Large Earthquakes in Southern California, with Reality Check from El Mayor-Cucapah, *Kim Olsen, San Diego State University*
 Strong Motion Interpretation — Analysis of Soil-Foundation Structure Interaction: *Christine Goulet, PEER*
 Selection and Modification of Time History Records for Engineering Design – A Practitioner's Perspective: *Zia Zafir, Kleinfelder*
 Evaluation of ASCE/SEI 7-05 Equations for the Seismic Design of Nonstructural Components Using Strong Motion Records: *Saeed Fathali and Bret Lizundia, Rutherford & Chekene*

10:00–10:30 am BREAK

10:30am–12:30pm **INTEGRATING RESEARCH AND PRACTICE**
 How can engineers work together to identify gaps in current research and streamline technology transfer into practice?
Moderator: Ahmed Elgamal, *UC San Diego*
Speakers:
 Precast Diaphragm Seismic Design Methodology (DSDM) Development Project: *Robert Fleischman, University of Arizona*
 Seismically Resilient Spine Systems with Controlled Rocking and Energy Dissipating Fuses: *Gregory Deierlein, Stanford University*
 Industry-Academia Collaboration in Geotechnical Engineering: *Jonathan Bray, UC Berkeley*
 Resilient Cities: *Chris Poland, Degenkolb*
 Cross-Border Issues and Collaboration: *Luis Mendoza, CICESE (Centro de Investigación Científica y de Educación Superior de Ensenada)*

12:30–2:30 pm **AWARDS LUNCHEON AND 2011 DISTINGUISHED LECTURE:**
 Stephanie Chang, *University of British Columbia*

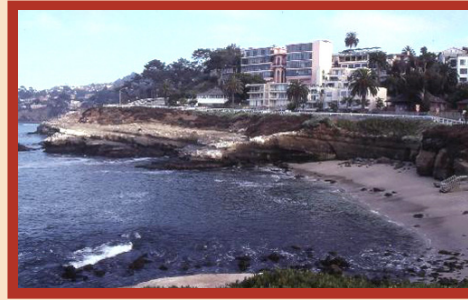
2:30–4:30 pm **ROCK AND ROLL: THE YEAR OF THE EARTHQUAKES**
Moderator: Chris Poland, *Degenkolb Engineers*
Speakers:
 Geotechnical Issues in the Baja California Earthquake: *Jorge Meneses, Kleinfelder*
 Haiti Earthquake — Disaster Preparedness, Emergency Management, Global Aid, Reconstruction Efforts: *Elizabeth Hausler, Build Change*



The California Tower and Dome in San Diego's Balboa Park, built for the 1915 Panama-California Exposition.

2011 EERI ANNUAL MEETING

Theme: *Earthquakes without Borders*



La Jolla shoreline (photo: Tom Fields).



Bridge column test on the NEES@UCSD shake table. ▶

Chile Earthquake — Changes to Research and Practice Based on Identified Code Deficiencies: *Jack Moehle, UC Berkeley*
 New Zealand Earthquake: *Mary Comerio, UC Berkeley*
 Implications for U.S. — Are We Effectively Defining, Evaluating and Assessing Resilience for U.S. Cities? *Kathleen Tierney, Natural Hazards Center*

4:30–4:50 pm **2009-10 EERI/FEMA NEHRP GRADUATE FELLOW:** Matthew Eatherton, *Virginia Tech*

4:50–5:15 pm **2010 EERI/FEMA NEHRP PROFESSIONAL FELLOW:** Arzhang Alimoradi, *John A. Martin & Associates*

6:00–7:30 pm **GENERAL RECEPTION & POSTER SESSION***
 7:30 pm **BANQUET & CASINO NIGHT**

Saturday, February 12, 2011

7:30–9:30 am COMMITTEE CHAIRS MEET WITH EERI BOARD OF DIRECTORS

9:30–10:00 am WINNER 2011 EERI GRADUATE STUDENT PAPER COMPETITION—*TBA*

10 am–12:00 pm **TWO PARALLEL SESSIONS:**
I: LATEST INNOVATIONS IN STRUCTURAL EARTHQUAKE ENGINEERING
Moderator: Lelli Van Den Einde, *UC San Diego*
Speakers:
 Innovative Seismic Retrofit of Structures: *David Mar, Tipping Mar & Associates*
 High-Speed Rail Lines: *Frieder Seible, University of California San Diego*
 Are Our Lifelines Working? *Charly Sikorsky, Caltrans*
 Wall dampers: *Jay Love, Degenkolb Engineers*
II: IS V_{s30} AN EFFECTIVE PARAMETER FOR SITE CHARACTERIZATION?
Moderator: Jorge Meneses, *Kleinfelder*
Speakers:
 I. M. Idriss, *UC Davis*
 Ellen Rathje, *University of Texas Austin*

*For poster requirements, see <http://www.eeri.org/site/meetings/2011-annual-meeting>.

Norman Abrahamson, *Pacific Gas & Electric Co.*
 Jonathan Stewart, *UCLA*

12:00–1:45 pm **LUNCHEON: 8th ANNUAL SSA/EERI WILLIAM B. JOYNER MEMORIAL LECTURE:** Extreme Ground Motions: *Thomas C. Hanks, U.S. Geological Survey*

1:45–2:00 pm **UNDERGRADUATE SEISMIC DESIGN COMPETITION AWARDS CEREMONY**

2:00–2:30 pm **FIELD TRIP BRIEFING**

2:30 pm Technical Program Adjourns

2:45 pm **OPTIONAL FIELD TRIPS:**
Transportation will be provided for both tours.

2:45–5:00 pm • **University of California San Diego Englekirk Center Experimental Facilities:**
 A one-of-a-kind worldwide resource, the center houses the NEES@UCSD large high-performance outdoor shake table, a soil-foundation-structure interaction facility that includes a large laminar soil shear box and a refillable soil pit, and a blast simulator.

2:45–5:00 pm • **Balboa Park:** On a 90-minute walking tour of San Diego's beloved open space and architectural showcase, you will (1) learn how a barren mesa was transformed into an urban cultural park with world-class regional architecture and horticulture; and (2) visit the sites of the 1915 and 1935 international expositions, now historical landmark districts.

HOTEL INFORMATION

Hyatt Regency La Jolla at Aventine, 3777 La Jolla Village Drive, San Diego, California, USA 92122. Hotel reservations can be made from a link on the meeting registration page, <https://www.eeri.org/registration/am.php>. To make a reservation by phone, call 1-888-421-1442 using the code EERI.

IN ORDER FOR EERI TO FILL ITS ROOM BLOCK, YOU MUST MAKE YOUR RESERVATION BY **JANUARY 8, 2011.**

- EERI group rate: \$179.00 for single and double rooms; triple and quad: add \$50.00 per person. Hotel room tax: 12.57%.
- Check-in time is 3:00 p.m.; check-out time is 12 noon.
- Valet parking: \$25 per day (includes in/out privileges).
- Self parking: \$20 per day.
- The hotel is 10 miles from the San Diego International Airport (SAN). Express or Cloud 9 Shuttle: \$15.00 one way.
- Taxi: approximately \$35-\$45 one way.

EERI ANNUAL MEETING REGISTRATION

(Clip and mail/fax, or register online at <https://www.eeri.org/registration/am.php>)

Name (first to last) _____ EERI Membership ID Number _____

Business Name/Affiliation (for name tag) _____

Street Address/PO Box _____

City/State/Zip/Country _____

Daytime Telephone/Daytime Fax _____

e-mail address _____

- I wish to participate in the Saturday field trip to the University of California San Diego Englekirk Center experimental facilities, 2:45-5:00 pm (\$30 per person, add to reg. fee below), **OR**
- I wish to participate in the Saturday field trip to the heritage buildings of Balboa Park, 2:45-5:00 pm (\$30 per person, add to reg. fee below).

Registration fee includes 3 lunches, one Friday banquet ticket (additional banquet tickets \$100 ___) and a notebook.

EERI Member \$450 ___ **Non-Member** \$650* ___

Circle one applicable EERI member category:
Student** / **Young Professional** / **Retired** \$250 ___

***NEW MEMBERS: JOIN EERI TODAY**—Pay only \$225 for 2011 EERI Membership (regular dues are \$250) and save \$200 on registration.
 I wish to join (enclose total of \$675).

****STUDENTS: JOIN EERI TODAY**—Pay only \$50 for Student Membership (or \$25 for E-Student Membership) and save \$400 on registration:
 I wish to join (enclose total of \$300 or \$275). (If this option is chosen, you will receive a form requiring the signature of a professor or officer certifying student status.)

TOTAL Amount Enclosed _____ (Add \$50 after January 14, 2011)

PRE-REGISTRATION DEADLINE: January 14, 2011.
 LATE AND ON-SITE REGISTRATION, ADD \$50.

CANCELLATIONS: If received in writing on or before January 28, 2011, refund less \$25; after January 28, 50% will be refunded.

Make check payable to: **EERI, 499 14th Street, Suite 320, Oakland, CA 94612-1934.** For more information, phone (510) 451-0905, fax (510) 451-5411, e-mail: eeeri@eeeri.org.

Please do not fax registration form unless you are paying with a credit card (VISA or MasterCard).

VISA/MasterCard No. _____ Expiration Date _____

Authorized Signature _____



EERI ANNUAL MEETING February 9-12, 2011

2010 El Mayor-Cucapah earthquake: Fallen light fixtures in a Jefferson Elementary School classroom in Calexico.