

# RECENT AND PLANNED EERI ACTIVITIES IN SUPPORT OF THE FEMA EARTHQUAKE PROGRAM

# EERI's Objectives

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- Technology Transfer and Knowledge Dissemination
- Engagement and Support for Students and Young Professionals
- Support to Specific States with Earthquake Risk

# Technology Transfer and Knowledge Dissemination

- Annual EERI Technical Seminar Series
- 2012 National Earthquake Conference
- 9<sup>th</sup> and 10<sup>th</sup> National Conferences on Earthquake Engineering
- Support for EERI Regional Chapters
- Special Issues of *Earthquake Spectra* on Damaging Earthquakes
- *Connections* – The EERI Oral History Series
- Online Mitigation Center

# Annual EERI Technical Seminars



An EERI Seminar

## FEMA 547: Techniques for the Seismic Rehabilitation of Existing Buildings

Presented by:

- William T. Holmes
- Kelly E. Cobeen
- Bret Lizundia
- James O. Malley

San Francisco: October 28, 2010  
Los Angeles: October 29, 2010  
Seattle: November 4, 2010  
Salt Lake City: November 5, 2010



An EERI Technical Seminar funded by  
FEMA/Department of Homeland Security

**COSPONSORS:**  
The Northern and Southern California Chapters of EERI  
ASCE Sections of  
Los Angeles, San Francisco, Seattle, and Utah  
Structural Engineers Associations of  
Northern California, Southern California,  
Utah, and Washington



Quakes and aftershocks of 2010-11 New Zealand earthquakes



Port of Corral, Chile, 2010 (photo: FEMA)



Damage from 2011 Tohoku, Japan, tsunami (photo: J. Wright)



Partial collapse in an RC-wall building in Christchurch, Chile, 2011 (photo: J. Wright)



An EERI Seminar

## Learning from Recent Major Earthquakes: Lessons for Practice

Salt Lake City: October 24, 2012  
Los Angeles: October 25, 2012  
San Francisco: October 29, 2012  
Seattle: October 30, 2012




An EERI Technical Seminar funded by  
FEMA/Department of Homeland Security

**COSPONSORS:**  
American Society of Civil Engineers:  
Los Angeles, San Francisco, Seattle, and Utah Sections  
EERI:  
Northern California, Southern California, Oregon, Utah, and  
Washington chapters  
Structural Engineers Associations  
of Northern, Central, & Southern California, San Diego,  
Utah, & Washington


# 2012 National Earthquake Conference

**2012** EERI ANNUAL MEETING & NATIONAL EARTHQUAKE CONFERENCE




LEARNING FROM  
THE PAST TO  
PROTECT THE  
FUTURE


CONFERENCE NOTEBOOK





April 10-13, 2012  
Peabody Hotel, Memphis, Tennessee  
<http://2012am.eeri.org/>


Co-organizers:


 Earthquake Engineering Research Institute

 FEMA

 USGS  
United States Geological Survey

 CREW  
California Research in Earthquake Engineering

 Seismic

 WESTERN STATES SEISMIC POLICY COUNCIL

# 9<sup>th</sup> and 10<sup>th</sup> U.S. National Conferences on Earthquake Engineering



**toronto**  
july 25-29, 2010

9th US National and 10th Canadian  
Conference on Earthquake Engineering:  
*Reaching Beyond Borders*  
**Proceedings CD-ROM**

9<sup>ème</sup> Conférence Nationale  
Américaine et 10<sup>ème</sup> Conférence  
Canadienne de Génie Parasismique:  
*Au delà des Frontières*  
**Compte Rendu CD-ROM**



**Sponsoring Organizations:**



Earthquake Engineering Research Institute



Canadian Association for Earthquake  
Engineering  
L'Association Canadienne du Génie  
Parasismique

TENTH U.S. NATIONAL CONFERENCE ON EARTHQUAKE ENGINEERING



Frontiers of Earthquake Engineering

# 10NCEE

# 2014

July 21-25

EERI ANNUAL MEETING  
NEES QUAKE SUMMIT

Denali Convention Center  
800 West Seventh Street,  
Anchorage, Alaska

[www.10ncee.org](http://www.10ncee.org)  
[10ncee@eeri.org](mailto:10ncee@eeri.org)  
[twitter.com/10NCEE](https://twitter.com/10NCEE)





# Special Issues of *Earthquake Spectra* on Recent Damaging Earthquakes

VOLUME 27, NUMBER S1 OCTOBER 2011

## EARTHQUAKE SPECTRA

The Professional Journal of the Earthquake Engineering Research Institute



2010 Haiti Earthquake Special Issue



VOLUME 28, NUMBER S1 June 2012

## EARTHQUAKE SPECTRA

The Professional Journal of the Earthquake Engineering Research Institute



2010 Chile Earthquake Special Issue



# Mitigation Center

This site was developed with support from the Federal Emergency Management Agency

**EERI** Mitigation Center  
Earthquake Engineering Research Institute

Search the resource library  
Type keywords and hit enter...  
[Advanced search](#) | [Browse by Audience](#)

[HOME](#) [ABOUT](#) [POLICY & REGULATIONS](#) [STRUCTURES](#) [LIFELINES](#) [EDUCATIONAL MATERIALS](#) [CASE STUDIES](#) [LINKS](#)

**Featured Content**



**Promoting Seismic Safety: Guidance for Advocates (FEMA 474)** - [Click here to view](#)

**Welcome to the Mitigation Center**

On this website you will find information on many ways to reduce losses from earthquakes. The information will be of use to a broad spectrum of audiences, from homeowners to teachers, and from building professionals to public policy makers and community planners. EERI has developed this virtual center in order to assist in decreasing earthquake losses nationally and around the world. The material archived here has been developed by many prominent researchers and organizations committed to reducing the damages that earthquakes can cause.

[About the Mitigation Center](#)

**New Additions**

- [Seismic Building Performance for Nonengineers](#)
- [Ghazabad City Disaster Management Plan 2011-2012](#)
- [SPUR Report 01/2012: Safe Enough to Stay](#)
- [2010 Update of Scenario for a Magnitude 7.0 Earthquake on the Hayward Fault](#)
- [Building Community Disaster Resilience through Private-Public Collaboration](#)



**Submit a Document to the Library**

The Mitigation Center is always looking for new documents about earthquake mitigation topics of interest to policymakers, homeowners, building professionals, and more. If your organization has a document you



**Community Mitigation Retrofit Mapping Project**

This map is a community mapping project to show Bay Area seismic retrofit projects from the last 20 years. We are in the process of expanding the map to cover the entire U.S. We encourage anyone with a retrofit project to enter basic



**Developing Earthquake Scenarios**

This website was created to help communities through the process of developing and using effective earthquake scenarios. The site has tools and suggestions, and has users sharing their experiences.



**Image Gallery**

Enter this part of our site for a searchable library of images from past earthquakes, as well as slideshows focused on mitigation activities. This site is constantly evolving, so check back frequently for new additions.



# Engagement and Support for Students and Young Professionals

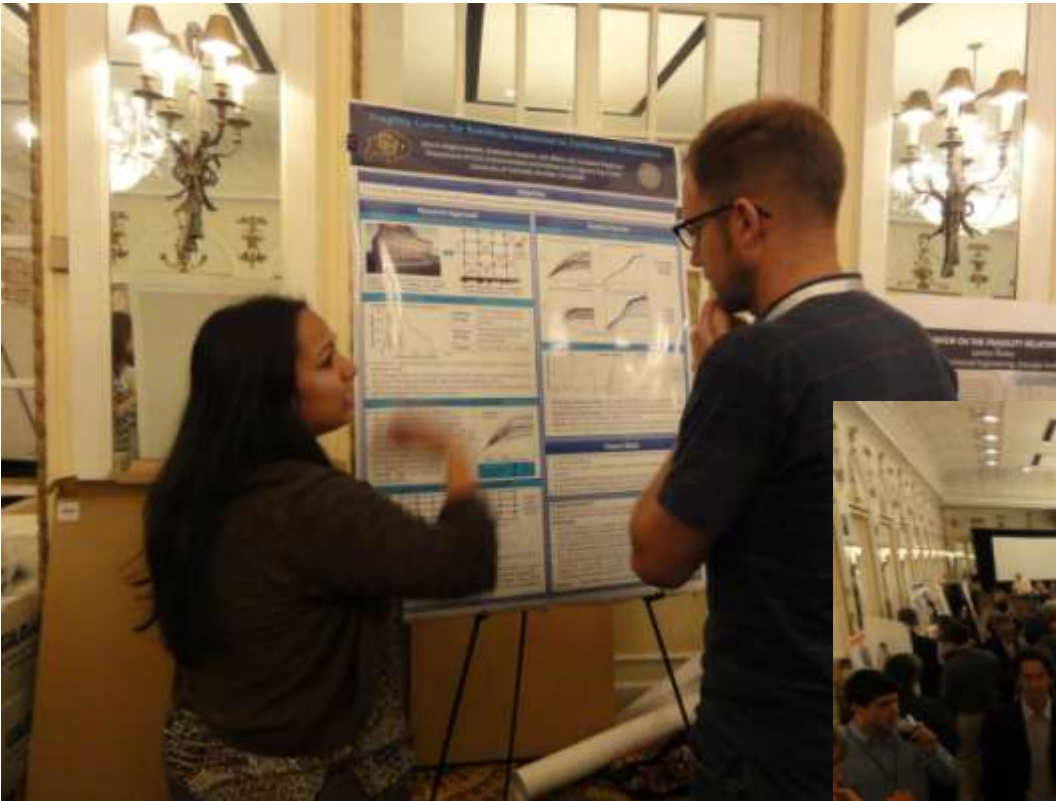
- Participation at National Conferences
- Participation at EERI Annual Meetings
- EERI's Student Leadership Council Seismic Design Competition
- Participation at EERI Technical Seminars
- NEHRP FEMA/EERI Graduate Fellowship
- EERI Houser Fellows Program
- Support for EERI Student Chapters

# Participation at National Conferences

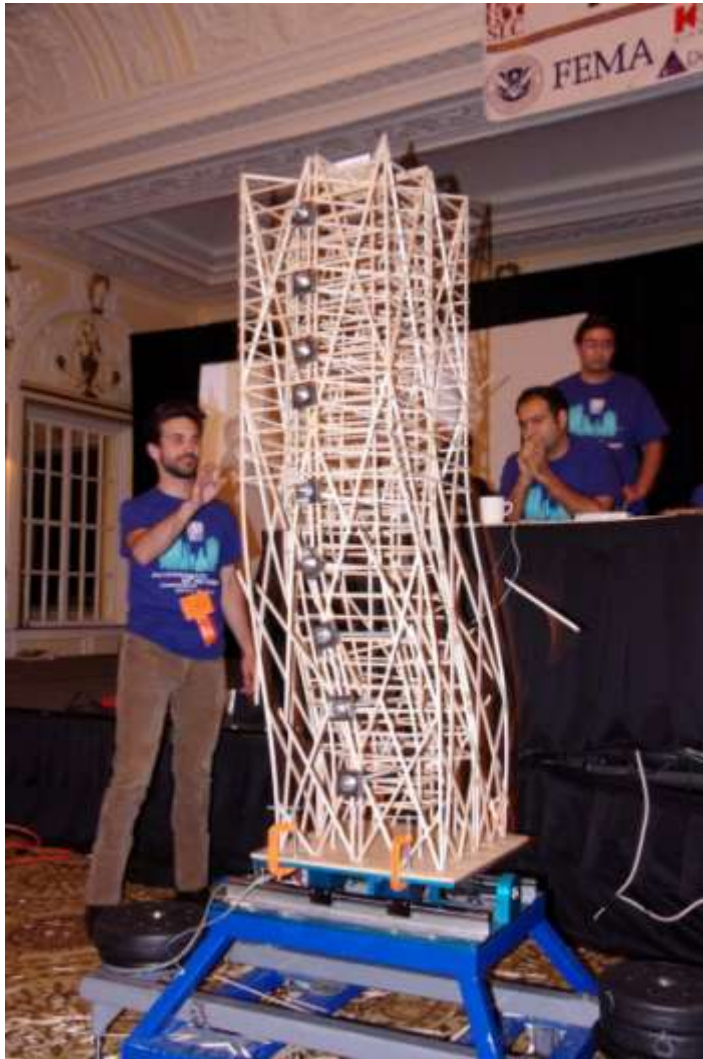


Young Researcher's Symposium

# Participation at EERI Annual Meetings



# Seismic Design Competition

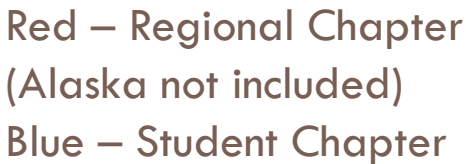




# EERI Housner Fellows Program







# Support to Specific States with Earthquake Risk

## □ California

- ▣ California Vital Infrastructure Vulnerability Assessment (Cal VIVA) Phase III
- ▣ Concrete Coalition Phase III

## □ Vermont

- ▣ Shear Wave Velocity Measurements and Seismic Mitigation Plans
- ▣ Hazards Maps Study/Development and Outreach



EERI Annual Meeting Alaska 2014  
More Info to follow!



