Old Cities
New Earthquakes

March 31 – April 3, 2015
Boston, Massachusetts

www.2015am.eeri-events.org

Earthquake Engineering Research Institute
Meeting Organization

Local Organizing Committee
Scott Civjan, Chair, University of Massachusetts, Amherst
Laurie Baise, Tufts University
Sergio Breña, University of Massachusetts, Amherst
Mario Carnevale, Hager Geosciences
David Drevinsky, General Services Administration
Ehsan Kianirad, AIR Worldwide
Harold Magistrale, FM Global
Paul Morey, FEMA Region I
David Sykora, Exponent
Marc Veletzos, Merrimack College

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Juliane Lane, Membership Coordinator
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Elizabeth Stalnaker, Spectra Managing Editor
Heidi Tremayne, Program Manager
Setsu Uzume, Administrative Assistant
Davide Martinelli, Graduate Intern
Alianora Walker, Graduate Intern

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Earthquake Engineering Research Institute
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Fax (510) 451-5411 • eeri@eeri.org • www.eeri.org
On behalf of the EERI Board of Directors, members, and our staff, I extend to you a warm welcome to our 67th EERI Annual Meeting.

We gather in Boston after a year marked by a very successful national conference in Alaska, and the Napa earthquake. After several years of damaging earthquakes around the globe, our community has been learning from the technical and social issues raised in these events. The challenges we face to improve the performance of buildings and infrastructure and make communities more resilient amplify the importance of our multiple disciplinary work. These earthquakes also illustrated that we have much to learn. The Annual Meeting allows us to consider the lessons learned and needs for more discovery.

The Organizing Committee has created an interesting program with the theme “Old Cities, New Earthquakes.” We will examine seismic hazards in Central and Eastern North America, challenging site conditions, building and infrastructure inventories, risk reduction, strategic planning and policy implications.

Our program is full, but please save time to participate in the Welcome Reception and two poster sessions. These activities allow you an opportunity to meet old friends and introduce yourself to new ones.

Our committees meet Wednesday and Thursday afternoons and Thursday and Friday mornings. Please join one of the open committees. You have many choices and we invite you to participate here and throughout the year.

As always, one of the most interesting and entertaining events will be the Undergraduate Seismic Design Competition. Student teams compete by shaking to failure the models of high-rise office buildings they designed, analyzed, and fabricated. Last year, the room was filled to capacity with cheering students and professionals.

We will also honor the contributions of several of our members:

- EERI’s highest honor, the George W. Housner Medal, will be awarded to the late Nigel Priestley, and accepted by Michele Calvi of Rose School, in recognition of Priestley’s exceptional contributions to the Institute and the profession.

Continued on Next Page
• Robert Olshansky will deliver the 2015 EERI Distinguished Lecture

• Paul Somerville will present the William B. Joyner Memorial Lecture

• Abbie B. Liel of the University of Colorado will receive the Shah Family Innovation Prize

• Walter J. Arabasz of the University of Utah will receive the EERI Alfred E. Alquist Special Recognition Award

• Robert Reitherman and Thomas Tobin will be named Honorary Members in recognition of their decades of dedicated contributions to the Institute and the profession, and,

• We will announce the recipients of the Earthquake Spectra Outstanding Paper Award.

We greatly appreciate and acknowledge financial support for this meeting and/or the student design competition from FEMA, Exponent, LeMessurier, Weidlinger Associates Inc., Computers and Structures Inc, Degenkolb Engineers, Kinematics, the Civil and Engineering Department at University of Massachusetts, Amherst, and Northeastern University’s Department of Civil and Environmental Engineering.

Enjoy the Annual Meeting, and use it as an opportunity to discuss your ideas, engage colleagues, and become more active in EERI. Please share your ideas about EERI with me or other members of the Board of Directors. We are eager to hear from you.

We will enjoy presentations from the EERI Outstanding Graduate Student Paper Competition winner and the EERI/FEMA NEHRP Graduate Fellow.

We all benefit from the generosity of our members and Subscribing Members. Gifts to EERI and to our Endowment Fund allow EERI to undertake efforts otherwise not possible. We will recognize all of our Subscribing Members and major donors at a special reception on Thursday night.
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EERI Knowledge Center and Online Store................. Outside back cover
Tuesday, March 31, 2015

5:00–7:30 pm Imperial Ballroom Foyer
REGISTRATION OPENS

5:30–7:00 pm Statler Room
Welcome Reception

Wednesday, April 1, 2015

7:00 am Imperial Ballroom Foyer
REGISTRATION CONTINUES

8:00–8:20 am Imperial Ballroom
WELCOME AND OPENING STATEMENT
Mary C. Comerio, President, EERI

8:20–8:30 am Imperial Ballroom
WELCOME FROM ORGANIZING COMMITTEE
Scott Civjan, Univ. of Massachusetts, Amherst

8:30–10:00 am Imperial Ballroom
SEISMIC HAZARD IN CENTRAL AND EASTERN NORTH AMERICA
Moderator: Harold Magistrale, FM Global
Speakers: John Ebel, Boston College/Weston Observatory
Mark Peterson, USGS
Stephen Halchuk, GSC
William Ellsworth, USGS
Martitia Tuttle, M. Tuttle and Associates

10:00–10:30 am Statler Room
BREAK

10:30–12:00 pm Imperial Ballroom
STRATEGIC EMERGENCY MANAGEMENT OVERVIEW
Moderator: Brian Collins, FEMA Region I
Speakers: Brian Collins, FEMA Region I
Amy Gryzbowski, Town of Westerly, RI
Dave Brunsondo, Kestrel Group NZ

12:00–2:00 pm Plaza Ballroom
LUNCHEON AND EERI DISTINGUISHED LECTURE:
Cities, Earthquakes, and Time
Robert Olshansky, University of Illinois at Urbana-Champaign

2:00–3:30 pm CONCURRENT SESSIONS
Imperial Ballroom
I. PANEL: CHALLENGING SITE CONDITIONS
Moderator: Laurie Baise, Tufts University

Panelists: Youssef Hashash, University of Illinois
Laurie Baise, Tufts University
Adrian Rodriguez, Virginia Tech
Guney Olgun, Virginia Tech
Sissy Nikolaoiu, Mueser Rutledge Consulting Engineers
Aaron Bradshaw, University of Rhode Island

Berkeley/Clarendon Room

II. STRATEGIC EMERGENCY MANAGEMENT PLANNING PROCESSES
Moderator: Ayse Hotacsu, ATC
Speakers: Mai (Mike) Tong, FEMA HQ
Mike Griffin, CCS Group
Ayse Hotacsu, ATC
Kelly S. Stone, FEMA Region IX
Andre Barbosa, Oregon State University

3:30–6:00 pm Statler Room
POSTER SESSION

3:30–4:00 pm Statler Room
BREAK

4:00–5:15 pm Imperial Ballroom
EERI—LEARNING FROM EARTHQUAKES
Moderator: Ken Elwood, University of Auckland
Speakers: Marko Schotanus, Rutherford+Chekene
Mike Mahoney, FEMA
Maggie Ortiz, EERI
Jeff Hunt, Exponent

5:30–7:00 pm EERI COMMITTEE MEETINGS

6:00–7:30 pm Georgian/Arlington Room
RECEPTION AND SEISMIC DESIGN COMPETITION SILENT AUCTION

Thursday, April 2, 2015

7:00–8:30 am
EERI COMMITTEE MEETINGS

8:30–10:00 am Imperial Ballroom
SEISMIC RESPONSE AND VULNERABILITY—NEW DESIGN
Moderator: Sergio Breña, Univ. of Massachusetts, Amherst
Speakers: Ian Buckle, University of Nevada, Reno
Jerry Hajjar, Northeastern University
Eric Hines, LeMessurier Consultants
Julio Ramirez, Purdue University

10:00–10:30 am Statler Room
BREAK
Program

10:30 am–12:00 pm Imperial Ballroom
PUBLIC POLICY AND IMPLICATIONS
Moderator: Scott Civjan, Univ. of Massachusetts, Amherst
Speakers: Tao Lai, AIR Worldwide
David Grandpre, CA Pretzer Associates
Mehrdad Sasani, Northeastern University
Bob Pekelnicky, Degenkolb Engineers
Lucy Jones, USGS

12:00–2:00 pm Plaza Ballroom
EERI AWARDS LUNCHEON AND ANNUAL BUSINESS MEETING

2:00–3:30 pm CONCURRENT SESSIONS
Imperial Ballroom
I. SEISMIC RESPONSE AND VULNERABILITY—EXISTING STRUCTURES
Moderator: Marc Veletzos, Merrimack College
Speakers: Ken Elwood, University of Auckland,
Bob Pekelnicky, Degenkolb Engineers
Dominic Kelly & David Bonneville, SGH
Andrew O’Donnell, AIR Worldwide

Berkeley/Clarendon Room
II. CIVIL INFRASTRUCTURE FROM A GEOTECHNICAL PERSPECTIVE
Moderator: Ehsan Kianirad, AIR Worldwide
Speakers: Antonio Vytiniotis, Exponent
Francis Leathers, GEI
Paul Rizzo, RIZZO Associates
Theodore von Rosenvinge, GeoDesign, Inc.
Sammantha Magsino, National Research Council

3:30–7:30 pm Statler Room
POSTER SESSION

3:30–4:00 pm Statler Room
BREAK

4:00–5:15 pm Imperial Ballroom
EERI SCHOOL EARTHQUAKE SAFETY INITIATIVE
Moderator: Barry Welliver, BHW Engineers
Speakers: Thalia Anagnos, San Jose State University
Lelli Van Den Einde, University of California, San Diego
Rob Jackson, AECOM
Lucy Arendt, University of Wisconsin-Green Bay
Tom Tobin, Tobin & Associates

5:30–7:00 pm EERI COMMITTEE MEETINGS

6:00–7:30 pm Statler Room
POSTER RECEPTION

7:00–8:00 pm Plaza Ballroom
SUBSCRIBING MEMBERS AND MAJOR DONORS RECEPTION

Friday, April 3, 2015

7:30–9:00 am
EERI COMMITTEE MEETINGS

9:00–9:25 am Plaza Ballroom
2014-2015 FEMA/EERI NEHRP GRADUATE FELLOW PRESENTATION

9:25–9:45 am Plaza Ballroom
GRADUATE STUDENT PAPER PRESENTATION

9:45–10:00 am Statler Room
BREAK

10:00–11:30 am Plaza Ballroom
PANEL: INVENTORYING AND PRIORITIZING ACTIONS TO REDUCE RISK OF OLDER STRUCTURES
Moderator: Scott Civjan, Univ. of Massachusetts, Amherst
Panelists: Craig Bennett, Bennett Preservation Engineering
Gary Patterson, University of Memphis
Ramom Gilsanz, Gilsanz/Murray/Steficek
Mark Haley, Haley and Aldrich
Pedro Sifre, Simpson Gumpertz & Heger

11:30 am–12:30 pm Plaza Ballroom
COMMUNITY RESILIENCE
Moderator: Roberto Leon, Virginia Tech

12:30–2:15 pm Imperial Ballroom
LUNCHEON AND SSA/EERI WILLIAM B. JOYNER LECTURE: Geoscientists’ Capacity to Supply Engineers’ Demands for Seismic Hazard Inputs
Paul Somerville, URS

2:15–2:30 pm Imperial Ballroom
UNDERGRADUATE SEISMIC DESIGN AWARD CEREMONY

2:45–5:00 PM
OPTIONAL FIELD TRIPS

2:45–6:00 PM Georgian Room
EERI POST-EARTHQUAKE RECONNAISSANCE WORKSHOP
Plenary Sessions: Imperial Ballroom and Plaza Ballroom (Friday)
Concurrent Sessions: Imperial and Plaza Ballrooms, Berkeley/Clarendon Room
Lunches: Plaza Ballroom and Imperial Ballroom (Friday)
Seismic Design Competition: Georgian/Arlington Room
Subscribing Members

DIAMOND LEVEL
Computers & Structures, Inc.
www.csiamerica.com

American Institute of Steel Construction (AISC)
www.aisc.org
Applied Technology Council
www.atcouncil.org
Arup
www.arup.com
Bechtel
www.bechtel.com
COSMOS
www.cosmos-eq.org
Dynamic Isolation Systems Inc.
www.dis-inc.com
Earthquake Protection Systems Inc.
www.earthquakeprotection.com
EBAA Iron Inc.
www.ebaa.com
ETC Building & Design Inc.
www.etcusa.net
FM Global
www.fmglobal.com
Forell/Elsesser Engineers Inc.
www.forell.com
Fugro Consultants, Inc.
www.fugroconsultants.com
GeoSIG
www.geosig.com
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www.gmsllp.com/
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Hayward Baker
www.haywardbaker.com
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www.imagecatinc.com
ITT Control Technologies
www.itcontroltech.com
Kleinfelder Inc.
www.kleinfelder.com
Leighton & Associates
www.leightongeo.com
Lettis Consultants International, Inc.
www.lettisci.com
MCEER
mceer.buffalo.edu
MTS Systems Corporation
www.mts.com
Mueser Rutledge Consulting Engineers
www.mrce.com
Nabih Youssef & Associates
www.nyase.com
Pacific EQ Engineering Research Center (PEER)
peer.berkeley.edu
Puerto Rico Strong Motion Program
prsmp.uprm.edu
Raito Inc.
www.raitoinc.com
Ringfeder Power Transmission Group
www.ringfeder.com
Rutherford + Chekene
www.runchek.com
Sage Engineers
www.sageengineers.com
Shannon & Wilson
www.shannonwilson.com
Simpson Gumpertz & Heger Inc.
www.sgh.com
Skidmore Owings & Merrill LLP
www.som.com
Taylor Devices Inc.
www.taylordevices.com
Trimble Infrastructure
www.trimble.com/infrastructure
URS Corp
www.urscorp.com
Walter P Moore
www.walterpmoore.com
WeatherPredict Consulting Inc.
www.weatherpredict.com
Weidlinger Associates Inc.
www.wai.com
Wiss Janney Elstner Associates Inc.
www.wje.com

PLATINUM LEVEL
Degenkolb Engineers
www.degenkolb.com

GOLD LEVEL
California Earthquake Authority
www.earthquakeauthority.com
John A. Martin & Associates, Inc.
www.johnmartin.com
Kinemetrics
www.kmi.com
Pacific Gas and Electric Company
www.pge.com

SILVER LEVEL
CoreBrace
www.corebrace.com
GEI Consultants, Inc.
www.geiconsultants.com
KPFF Consulting Engineers
www.kpff.com
RMS
www.rms.com
Thornton-Tomasetti
www.thorntontomasetti.com

BRONZE LEVEL
ABS Consulting Inc.
www.absconsulting.com
AER Worldwide Corp.
www.aer-worldwide.com
AMEC Foster Wheeler
www.amecfw.com/
Seismic Design Competition

TUESDAY, MARCH 31, 2015
Model Display and Preliminary Judging
8:00 am – 2:30 pm
Arlington Room
Young Researchers Symposium
2:30 pm – 5:00 pm
Georgian Room

WEDNESDAY, APRIL 1, 2015
Team Presentations
All day
Georgian Room
Student and Industry Expo
All day
Statler Room
Silent Auction and Poster Session
6:00 pm – 7:30 pm
Georgian and Arlington Rooms

THURSDAY, APRIL 2, 2015
Model Shaking Table Testing
All day
Georgian and Arlington Rooms

FRIDAY, APRIL 3, 2015
Awards Luncheon
12:30 pm – 2:30 pm
Imperial Ballroom

Special thanks to EERI’s dedicated Student Leadership Council for organizing the 2015 SDC:

- Anahid Behrouzi, (University of Illinois at Urbana-Champaign), Co-President
- Ezra Jampole (Stanford), Co-President
- Diane Moug (University of California, Davis), Treasurer
- Cristian Acevedo (Stanford), Secretary
- Camilla Favaretti (University of California, Irvine), SDC Chair
- Vincente Pericoli (University of California, Davis), SDC Chair
- Chris Graham (University of California, San Diego), SDC Chair
- Rachel Chicchi (Purdue University), Outreach Coordinator
- Benjamin Turner (University of California, Los Angeles), Outreach Coordinator
- Mohammad Farshchin (University of Memphis), Webmaster
- Lucas Laughery (Purdue University), Webmaster
- Mara Minner (University of California, Berkeley)
- Neal “Simon” Kwong (University of California, Berkeley)
- Sikandar Hayat Sajid (University of Engineering & Technology, Peshawar - Pakistan)
- Ullah Sajid (University of Engineering & Technology, Peshawar - Pakistan)
- Nolan Amos (Pennsylvania State University)
- Brad Wham (Cornell)
- Ioannis Gidaris (University of Notre Dame)
- Philip Moore (University of Nebraska - Omaha)
- Hartanto Wibowo (Iowa State University)
2015 SEISMIC DESIGN COMPETITION TEAMS

Antalya International University
Brigham Young University
California Polytechnic State University, San Luis Obispo
California State Polytechnic University, Pomona
California State University Fullerton
California State University, Long Beach
California State University, Los Angeles
Cankaya University
Cornell University
Fatih University
Iowa State University
Karadeniz Technical University
McMaster University
Northeastern University
Purdue University
Rice University
San Diego State University
San Francisco State University
San Jose State University
Stanford University
Technical University of Cluj - Napoca
The University at Buffalo
The University of British Columbia
The University of Memphis
University of California, Berkeley
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of Colorado at Boulder
University of Connecticut
University of Illinois at Urbana-Champaign
University of Massachusetts, Amherst
University of Michigan
University of Minnesota
University of Nebraska-Lincoln
University of Nevada, Reno
University of Notre Dame
University of Puerto Rico
University of Southern California
WEDNESDAY, APRIL 1, 2015
5:30 to 7:00 p.m.

Learning from Earthquakes (LFE) Executive Committee
Cambridge Room
Committee Members Only

Earthquake Spectra Editorial Board
Beacon Hill Room
Committee Members Only

Public Policy & Advocacy Committee
Back Bay Room
Open to all

THURSDAY, APRIL 2, 2015
7:00 to 8:30 a.m.

Initiatives Development Committee
Cambridge Room
Committee Members Only

World Housing Encyclopedia (WHE)
Beacon Hill Room
Open to all

5:30 to 7:00 p.m.

Young Members Workshop
(Membership, Student Activities, and Young Members Committees)
Clarendon Room
Open to all

Housner Fellows Management
Exeter Room
Committee Members Only

WiSE: Women’s Networking Hour
Berkeley Room
Open to all

Strong Motion Forum:
USGS ANSS listening session on strategic planning
Imperial Ballroom
Open to all

Honors Committee
Hancock Room
Committee Members Only

FRIDAY, APRIL 3, 2015
7:30 to 9:00 a.m.

School Earthquake Safety Initiative Info Session
(With Executive Committee)
Clarendon Room
Open to all
## EERI Committees

<table>
<thead>
<tr>
<th>Association Committees</th>
<th>Chair</th>
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</thead>
<tbody>
<tr>
<td>National Conference Advisory Committee: 2018</td>
<td>TBD</td>
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<tr>
<td>Annual Meeting Local Organizing Committee: 2015</td>
<td>Scott Civjan</td>
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<tr>
<td>Annual Meeting Local Organizing Committee: 2016</td>
<td>Danielle Mieler, Lindsey Maclise</td>
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<tr>
<td>Professional Development Committee</td>
<td>Jim Malley</td>
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<tr>
<td>Student Activities Committee</td>
<td>Scott Brandenberg</td>
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<tr>
<td>Student Leadership Council</td>
<td>Anahid Behrouzi, Ezra Jampole</td>
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<tr>
<td>Membership Committee</td>
<td>Ivan Wong</td>
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<tr>
<td>Young Member Committee</td>
<td>Erica Fischer, Manny Hakhamaneshi</td>
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<tr>
<td>Nominating Committee</td>
<td>Joe Maffei</td>
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<tr>
<td>Initiatives Development Committee</td>
<td>Craig Comartin</td>
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<tr>
<td>Finance Committee</td>
<td>Janiele Maffei</td>
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<tr>
<td>Public Policy and Advocacy Committee</td>
<td>Laura Samant</td>
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<tr>
<td>Honors Committee</td>
<td>Reggie DesRoches</td>
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<tr>
<td>Shah Family Innovation Prize Selection Committee</td>
<td>Ellen Rathje</td>
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<tr>
<td>Oral History Committee</td>
<td>Robert Reitherman</td>
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<tr>
<td>Earthquake Spectra Editorial Board</td>
<td>Jonathan Stewart</td>
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<thead>
<tr>
<th>Program Committees</th>
<th>Chair</th>
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<tbody>
<tr>
<td>Learning From Earthquakes Executive Committee</td>
<td>Ken Elwood</td>
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<tr>
<td>LFE Committee</td>
<td>Ken Elwood</td>
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<tr>
<td>LFE Subcommittee: Reconnaissance Tools and Training</td>
<td>Jeffrey Hunt</td>
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<tr>
<td>LFE Subcommittee: NSF Resilience Panel</td>
<td>Laurie Johnson, Rob Olshansky</td>
</tr>
<tr>
<td>LFE Subcommittee: On-Site Learning</td>
<td>Thalia Anagnos</td>
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<tr>
<td>School Earthquake Safety Initiative Executive Committee</td>
<td>Barry Welliver</td>
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<tr>
<td>School Earthquake Safety Initiative Program Committee</td>
<td>Barry Welliver</td>
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<tr>
<td>SESI Subcommittee: Safety Screening, Inventory, and Evaluation</td>
<td>Ken Goettel</td>
</tr>
<tr>
<td>SESI Subcommittee: Classroom Education and Outreach</td>
<td>Thalia Anagnos, Lelli Van Den Einde</td>
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<td>SESI Subcommittee: Code Updates and Improvements</td>
<td>Rob Jackson</td>
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<tr>
<td>SESI Subcommittee: Safety Advocacy and Messaging</td>
<td>TBD</td>
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<tr>
<td>SESI Subcommittee: Tsunami Mitigation of Schools</td>
<td>TBD</td>
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<tr>
<td>Concrete Coalition Executive Committee</td>
<td>Russell Berkowitz</td>
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<tr>
<td>Concrete Coalition Program Committee</td>
<td>Russell Berkowitz</td>
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<tr>
<td>Concrete Coalition Subcommittee: Public Policy and Advocacy</td>
<td>Abbie Liel</td>
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<tr>
<td>World Housing Encyclopedia (WHE) Executive Committee</td>
<td>Andrew Charleston</td>
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<tr>
<td>World Housing Encyclopedia (WHE) Program Committee</td>
<td>Andrew Charleston</td>
</tr>
<tr>
<td>World Housing Encyclopedia (WHE) Subcommittee: Confined Masonry Network Steering Committee</td>
<td>Tim Hart</td>
</tr>
<tr>
<td>Housner Fellows Management Committee</td>
<td>Arrietta Chakos</td>
</tr>
<tr>
<td>Friedman Family Visiting Professionals Program Advisory Committee</td>
<td>David Friedman</td>
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</tbody>
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EERI Annual Awards

George W. Housner Medal
Awarded to Nigel Priestley
accepted by Michele Calvi, Rose School

EERI Alfred E. Alquist Special Recognition Award
Presented to Walter J. Arabasz, University of Utah

EERI Honorary Membership
Robert Reitherman, CUREE
L. Thomas Tobin, Tobin & Associates

Shah Family Innovation Prize
Presented to Abbie Liel, University of Colorado, Boulder

Bruce Bolt Medal
Presented to John Anderson, University of Nevada, Reno

2013 Outstanding Earthquake Spectra Paper
“Calibration and Validation of a Seismic Damage Propagation Model for Interdependent Infrastructure Systems,” by Jason Wu and Leonardo Dueñas-Osorio
Poster Sessions
Wednesday, April 1, 2015

Seismic Design Competition Team Posters

Antalya International University
Brigham Young University
California Polytechnic State University, San Luis Obispo
California State Polytechnic University, Pomona
California State University Fullerton
California State University, Long Beach
California State University, Los Angeles
Cankaya University
Cornell University
Fatih University
Iowa State University
Karadeniz Technical University
McMaster University
Northeastern University
Purdue University
Rice University
San Diego State University
San Francisco State University
San Jose State University
Stanford University
Technical University of Cluj - Napoca
The University at Buffalo
The University of British Columbia
The University of Memphis
University of California, Berkeley
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of Colorado at Boulder
University of Connecticut
University of Illinois at Urbana-Champaign
University of Massachusetts, Amherst
University of Michigan
University of Minnesota
University of Nebraska-Lincoln
University of Nevada, Reno
University of Notre Dame
University of Puerto Rico
University of Southern California

EERI Student Chapter Posters

Bin Cai, Bryan Hackman, Xiao Liang, and Sri Sritharan
Iowa State University
Mike Kovacs
McMaster University
Diego A. Aguirre, Emrah Tasdemir, David Overby, Ana G. Haro, Nihar Gogoi, Cuiyan Kong, and Mervyn J. Kowalsky
North Carolina State University
Benjamin Taylor
Purdue University
Sabarethinam Kameshwar and Mihaela Nistor
Rice University
Eddie Vega
Stanford University
Sean Pezeshk
The University of Memphis
Dan Irwin and Dela Pena
University of British Columbia
Wednesday, April 1, 2015 Posters
Graduate Student, Researcher, and Practitioner Posters

Diego A. Aguirre, Mervyn J. Kowalsky, James M. Nau, and Mohammed Gabr
Below-Ground Behavior of Reinforced Concrete Filled Steel Tube Pile-Columns

Rodrigo Betanzo
Seismic Isolation Using a Geosynthetic Liner: Shaking Table Tests Applied to a Semi-Real Scale Storage Tank

Megan Boston, Stephen Wong, Ibrahim Almufti, and Judith Mitrani-Reiser
Resilience-Based Earthquake Design of Hospitals Using the Redi Rating System and Loss of Function Analysis

Payel Chatterjee and Abhinav Gupta
Behavior of Electrical Substation Equipment Subjected to Seismic Motion

Qiwen Chen and Bassem Andrawes
Experimental Investigation of Innovative SMA Confinement Technique

Majid Ebad Sichani and Jamie E. Padgett
Probabilistic Seismic Demand Models for Rocking Response of Dry Cask Structures

Waleed E. El-Sekelly
The Effect of Seismic Preshaking History on the Liquefaction Resistance of Granular Soil Deposits

Kevin Fink, Erik Jensen, Kaleigh McLaughlin, Alexandros A. Taflanidis, Tracy Kijewski-Correa, and Dustin Mix
Design, Validation, and Implementation of an Alternative Housing Model for Reconstruction Efforts in Post-Quake Haiti

Erica C. Fischer, Judy Liu, and Amit H. Varma
Seismic Behavior of Cylindrical Fluid-Filled Tanks

Davide Giannuzzi and Roberto Ballarini
Braced Ductile Shear Panel: Computational Design and Experimental Testing of A New Dissipative Bracing System

Lia Goncalves, Eleanor Shoreman-Ouimet, Richard Christenson, and Erik Johnson
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Ana G. Haro and Mervyn Kowalsky
Lateral Instability of Reinforced Concrete Structural Walls

Ayse Hortacsu, (2014 EERI Housner Fellows)
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Sharyl Rabinovici and Janiele Maffei
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Sanaz Saadat, Charles V. Camp, and Shahram Pezeshk
Probabilistic Seismic Loss Analysis of Steel Structures-Evaluating the Effect of Lateral Stiffness

Alireza Shahjouei and Shahram Pezeshk
A New Ground Motion Prediction Equation for Central and Eastern North America

Robert A. Williams, Nicolas Luco, Oliver S. Boyd, Julie Furr, and Sean McGowan
What if Memphis and Shelby County, TN, Changed Practice from Designing to the More Rare Ground Motions in the 2012 International Building Code Design Maps to Ground Motions Having a 10% Chance of Exceedance in 50 Years?
Graduate Student, Researcher, and Practitioner Posters

Jong-Wha Bai, Mary Beth D. Hueste, and Paolo Gardoni
Probabilistic Loss Estimation For Concrete Buildings Subject to Seismic Events in the Central U.S.

Simonetta Baraccani, Michele Palermo, Stefano Silvestri, Giada Gasparini, and Tomaso Trombetti
Integration of Structural Analysis and Monitoring to Develop Interventions to Protect Monumental Buildings

Patrick Burns, Andre Barbosa, and Michael Olsen
Multi-Objective Loss Assessment of Oregon Bridges Due to Cascading Seismic and Tsunami Hazards

Mehmet Çelebia, S. Farid Ghaharib, and Ertugrul Taciroglu
A Comparison of Low-Amplitude Ambient and Earthquake Responses of a Tall Building on the MIT Campus, Cambridge, MA

In Ho Cho and Ikkyun Song
Information-Based Progressive Bar Buckling Model

Guillermo Diaz-Fanas, Menzer Pehlivan, and Sissy Nikolaou
Ground Improvement Methods for Liquefaction Mitigation in Eastern United States

Mohammad Farshchin
Implementation of a Non-Parametric Assembly Approach in Subspace Based Modal Analysis for Computation of Global Mode Shapes from Multiple Measurement Setups

Ioannis Gidaris, Alexandros A. Taflanidis, Diego Lopez-Garcia, and George M. Mavroeidis
Design of Floor Isolation Systems Under Multiple Seismic-Risk Criteria

A. Haji-Soltani and Shahram Pezeshk
Investigating Associated Uncertainties in a Complete Site-Specific Hazard Analysis: A Case Study for a Liquid Natural Gas Station

Farid Hosseinpour and Adel Abdelnaby
Statistical Evaluation of the Compressive Strength Models for FRP Confined Concrete Rectangular Prisms Using Experimental Data

Characterization of the Canterbury, New Zealand Healthcare System for Use in Seismic Simulation

Zhaoshuo Jiang and Xiaorong Zhang
Using Smart Wearable Devices for Seismic Measurements and Post-Earthquake Rescue

Alexandria Julius
Acquisition, Management, and Mapping of Data from the August 24, 2014 M6.0 South Napa Earthquake

James Kaklamanos and Brendon A. Bradley
1D Nonlinear Site Response Prediction: Analysis Of Residuals at a Large Number of Kik-Net Vertical Seismometer Arrays

Kristijan Kolozvari and John Wallace
Comparative Analytical Studies on Reinforced Concrete Walls: Importance of Modeling Shear-Flexure Interaction

John E. Lens, Mandar M. Dewoolkar, and Eric M. Hernandez
Evaluation of Seismic Vulnerability of Typical Existing Steel Girder Bridges in the Northeast United States

Sujith Mangalathu, Farahnaz Soleimani, Reginald DesRoches, and Jamie E. Padgett
Fragility Analysis of Box Girder Bridges with Lap-Splice Mode of Failure

Anthony Massari, Monica Kohler, Robert Clayton, and Tom Heaton
Damage Detection in High-Rise Buildings Using Dense Sensor Arrays
R. William McNerney
Nonlinear Simulations of Seismically Enhanced Light-Frame Systems

Michael William Mieler, S.R. Uma, and Judith Mitrani-Reiser
Using Failure Analysis Tools to Establish Resilience Objectives for Buildings

Morteza Mirshekari and Majid Ghayoomi
Seismic Site Response of Partially Saturated Soil Layers

Sepehr Movaghati and Adel Abdelnaby
Experimental and Numerical Analysis of Semi-rigid Connections with and without Self-centering Devices

Roger Paredes and Leonardo Dueñas-Osorio
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Menzer Pehlivan, Sissy Nikolaou, Ramon E. Gilsanz, Dimitrios Iliadelis, Akbar Mahvashmohammadi, Sanaz Saadat, Marina Moretti, Anastasios Sextos, and Panos Tsopelas
Learning From Earthquakes: Resilient Structures After the 2014 Cephalonia, Greece Earthquakes

Christopher Segura and John Wallace
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Mahyar Sharifi-Mood, Michael J. Olsen, Daniel T. Gillins, and Rubini Santha Mahalingam
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M. Shin, J. Riofrio, D. Jung, and B. Andrawes
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Emrah Tasdemir and Mervyn Kowalsky
Application of Grouted Shear Stud Connection for Steel Moment Resisting Frames

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Seyedsina Yousefianmoghadam and Andreas Stavridis
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Xilei Zhao, Takeru Igusa, and Judith Mitrani-Reiser
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5) Click Record

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