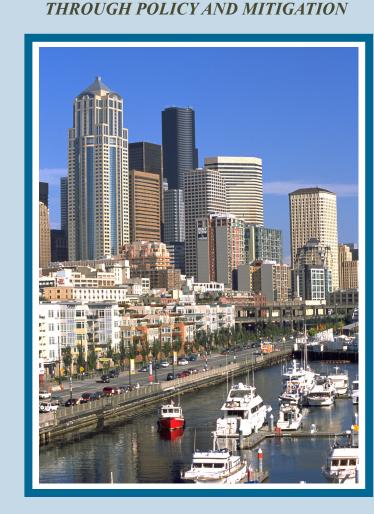
Seattle, Washington

65th Annual Meeting 13 EERI ANNUAL MEETING **BUILDING RESILIENT COMMUNITIES**



February 12-15, 2013 **Grand Hyatt Hotel** Seattle, Washington



Earthquake Engineering Research Institute

65th Annual Meeting

2013 EERI ANNUAL MEETING

BUILDING RESILIENT COMMUNITIES THROUGH POLICY AND MITIGATION

Tuesday, February 12, 2013

5:00–7:30 pm REGISTRATION OPENS

place at 1:45 p.m. on Friday.

THE 10th ANNUAL UNDERGRADUATE SEISMIC **DESIGN COMPETITION** will be held throughout the meeting. The competition, organized by EERI's Student Leadership Council (SLC), is an opportunity for undergraduate teams to design, analyze, fabricate, and subject to earthquake motions a balsa wood scale model of a high-rise office building. The Awards Ceremony will take

6:00–7:30 pm **WELCOME RECEPTION:** Join us for an informal get-acquainted icebreaker with complimentary snacks and a hosted bar.

Wednesday, February 13, 2013

7·00 am	REGISTRATION CO	NTINUES

WELCOME AND OPENING STATEMENT 8:00-8:20 am

Ian Buckle, President, EERI

8:20–8:30 am WELCOME FROM ORGANIZERS

Cale Ash, Degenkolb Engineers Scott Miles, Western Washington University Local Organizing Committee Co-Chairs

8:30–10:00 am EARTHQUAKES IN CASCADIA

Why, where, and how often Cascadia earthquakes occur, how Cascadia's built environment will likely fare in future earthquakes, and what tools, activities, and policies facilitate mitigation of Cascadia's earthquake hazards.

Moderator:

Joan Gomberg, U.S. Geological Survey

David Schmidt, University of Washington Brian Sherrod, U.S. Geological Survey John Hooper, Magnusson Klemencic Associates Vicki McConnell, Oregon Department of Geology and Mineral Industries

10:00-10:30 am BREAK

10:30–12:30 pm **RESILIENCE PLANNING**

The application of community resilience for disaster planning from national, state, and local perspectives. Relative successes and failures of recent planning processes, as well as imperatives for future planning processes.

Moderator:

Chris Poland, Degenkolb Engineers

Lucy Arendt, University of Wisconsin, Green Bay Jason Bierman, Snohomish County Emergency Management

Susan Cutter, University of South Carolina Yumei Wang, Oregon Department of Geology and Mineral Industries

12:30–2:00 pm LUNCHEON AND EERI DISTINGUISHED **LECTURE**: Resilience: An Engineering

Challenge

Mary Comerio, University of California, Berkeley

2:00–3:30 pm PANEL: RETROFIT AND REHABILITATION OF VULNERABLE BUILDINGS

> The policy challenges of remediation, public perception and willingness to engage in retrofits, grassroots attempts, methods used to quantify risk, case studies of specific retrofit projects, application of design techniques and return on investment prospects for retrofits.

Moderator:

Franz Rad, Portland State University

Panelists:

Richard Conlin, Seattle City Council David Johnston, GNS Science Peter May, University of Washington Michael Wright, Lund Wright Opsahl Jim Graham, Graham Baba Architects

3:30–4:00 pm BREAK

4:00–5:30 pm SCHOOL SEISMIC SAFETY

An overview of the current state of seismic safety of schools and multiple perspectives on how to improve it, followed by a cross-cutting panel discussion on "how to protect students in seismically dangerous schools by 2033."

Moderators:

Phil Gould, Washington University in St. Louis Yumei Wang, Oregon Department of Geology and Mineral Industries

Speakers:

Janise Rodgers, GeoHazards International John Schelling, Washington Military Department Emergency Management Division

Liam Finn, University of British Columbia Barbara Thurman, Washington Office of Superintendent of Public Instruction

Mike Mahoney, FEMA

Edward Wolf, Oregon Parents for Quake-Resistant Schools

5:30–6:30 pm EERI COMMITTEE MEETINGS

6:00-7:30 pm GENERAL RECEPTION AND POSTER SESSION

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



Thursday, February 14, 2013

7:00–8:30 am EERI COMMITTEE MEETINGS

8:30–10:00 am UNUSUAL EARTHQUAKES AND THEIR **IMPLICATIONS FOR RISK**

> Some of the notable earthquakes of the past decade were unusually large or unusually strong, and some were located in unusual places. This session addresses such seismological "surprises" from the perspective of hazard assessment and risk management.

Moderator:

Lori Dengler, Humboldt State University

Speakers:

Mary Comerio, University of California, Berkeley Art Frankel, U.S. Geological Survey Brian Atwater, U.S. Geological Survey Annie Kammerer, Nuclear Regulatory

10:00-10:30 am BREAK

10:30–12:30 pm CONCURRENT SESSIONS I: TSUNAMI DESIGN

Commission

Moderator: John Schelling, Washington State Emergency Management Division

Speakers:

Kent Yu, Degenkolb Engineers

Omar El-Anwar, University of Washington Harry Yeh, Oregon State University Frank Gonzalez, University of Washington

II: EARTHQUAKE-INDUCED GROUND **FAILURES**

Moderator: Timothy J. Walsh, *Washington State* Department of Natural Resources

Speakers:

Steven L. Kramer, University of Washington Kate Allstadt, University of Washington Rob Kayen, U.S. Geological Survey

12:30–2:30 pm AWARDS LUNCHEON AND ANNUAL

BUSINESS MEETING

2:30–4:00 pm MODELING RESILIENCE

> An overview of the state of the art of loss and recovery modeling methodologies and implementation with respect to building stock, lifelines, and socio-economic impacts.

Moderator:

Scott Miles, Western Washington University

Craig Davis, Los Angeles Department of Water

and Power

Steve Folga, Argonne National Labs Charlie Huyck, *ImageCAT Inc.*

Scott Miles, Western Washington University

The Experience Music Project and the Seattle Space Needle.





2013 EERI ANNUAL MEETING

Building Resilient Communities through Policy and Mitigation

■ Historic King Street Station is undergoing a seismic upgrade (photo: John Stamets)

> The Public Market sign above Pike *Place Market.* ▶ (photo: Tim Thompson)

Kevin Franke, Brigham Young University

4:00–4:30 pm **2011-2012 EERI/FEMA NEHRP GRADUATE**

4:30–5:00 pm GRADUATE STUDENT PAPER PRESENTATION

FELLOW

Friday, February 15, 2013

5:00–6:00 pm EERI COMMITTEE MEETINGS

6:00–7:30 pm GENERAL RECEPTION &

7:00–8:30 am EERI COMMITTEE MEETINGS

8:30–10:00 am CONCURRENT SESSIONS

Engineers

Speakers:

POSTER SESSION



Structural Research Laboratory in the Department of Civil Engineering at the University of *Washington* ▶



2:00 pm Technical Program Adjourns 2:15-4:30 pm

OPTIONAL FIELD TRIPS:

Participants will be responsible for their own transportation costs, as listed below.

- Preserving and Protecting Historic Buildings in **Seattle:** a walking tour of earthquake retrofit and rehabilitation projects in the historic Pioneer Square district of Seattle.
- Innovations in Earthquake Engineering: Visit two University of Washington facilities: the Pacific Northwest Seismic Network and the Structural Research Laboratory.

(Cost: \$5 roundtrip bus fare, cash only)

• Geologic Hazards in Seattle: travel across Puget Sound on a ferry to view evidence of regional faults and other geologic hazards. See the Alaskan Way Viaduct and seawall, two seismically-deficient structures that will soon be replaced.

(Cost: \$7.70 roundtrip ferry ticket, cash or

credit card) Evan Reis. AIR Worldwide Tona Rodriguez, California State University,

Los Angeles

II: TECHNOLOGY FOR POST-EARTHQUAKE ASSESSMENT AND **MONITORING**

I: LINKING PERFORMANCE-BASED

SEISMIC DESIGN WITH SUSTAINABILITY

Moderator: Lindsey Maclise, Forell/Elsesser

Kathrina Simonen, University of Washington

Moderator: Recep Cakir, Washington State Department of Natural Resources

Speakers:

Mehmet Celebi, U.S. Geological Survey David Wald, U.S. Geological Survey **EERI Information Technology Committee**

10:00-10:30 am BREAK

10:30 –11:00 am **UPDATE ON EERI ACTIVITIES**

Jay Berger, Executive Director, EERI

11:00–12:00 pm REPORT-OUT ON PRE-MEETING **CHRISTCHURCH EARTHQUAKES**

WORKSHOP

Mark Pierepiekarz, MRP Engineering

12:00–1:45 pm LUNCHEON: 10th ANNUAL SSA/EERI WILLIAM B. JOYNER MEMORIAL **LECTURE:** Kelvin Berryman, GNS Science

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

HOTEL INFORMATION

Grand Hyatt Seattle, 721 Pine Street, Seattle, Washington, USA 98101. Hotel reservations can be made from a link on the hotel information page on the meeting website, http://2013am.eeri.org/hotel. 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 22, 2013.

- EERI group rate: \$165.00 for single and double rooms; triple and quad: add \$25.00 per person. Hotel room tax: 15.6%.
- Check-in time is 3:00 p.m.; check-out time is 12 noon.
- Valet parking: \$41.48 per day (includes in/out privileges).
- Self parking: \$30 per night (includes in/out privileges when prepaid).
- The hotel is 15 miles from the Seattle/Tacoma International Airport (SEA-TAC). Seattle Link Light Rail: \$2.75; Downtown Airporter Shuttle: \$19 one way; Taxi: approximately \$40-\$50 one way.

Supporting Organization



EERI ANNUAL MEETING REGISTRATION (Clip and mail/fax, or register online at

Nam	e (first to last)	EERI Membership ID Numb
Busii	ness Name/Affiliation (for na	ame tag)
Stree	et Address/PO Box	
City/	/State/Zip/Country	
Dayt	ime Telephone	
e-ma	ail address	
۵	I wish to participate in the Historic Buildings in Sea	Friday field trip: Preserving and Protectin attle , 2:15-4:30 pm, OR
	I wish to participate in the Engineering , 2:15-4:30 p	Friday field trip: Innovations in Earthqua om, OR
	I wish to participate in the 2:15-4:30 pm.	Friday field trip: Geologic Hazards in Seat
Stud The i	litional lunch tickets \$55 _	1 / Retired \$295 ceptions, continental breakfasts, and 3 lunch for which day(s)
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The range of the r	lent / Young Professiona registration fee includes re litional lunch tickets \$55 I prefer vegetarian meals. (I DIN EERI TODAY—Atte v just \$700 for 2013 dues an I wish to join EERI and a I wish to j	ceptions, continental breakfasts, and 3 lunch for which day(s) Notify eeri@eeri.org of other dietary needs.) Ind the meeting and join as a Regular Member d registration, a total savings of \$220: In attend the meeting (enclose total of \$700). E: January 15, 2013, add \$100 for late regis (Add \$100 after January 15, 2013) In d in writing on or before January 29, 2013, will be refunded. No refunds after February 8, 499 14th Street, Suite 220, Oakland, CA 9, thone (510) 451-0905, fax (510) 451-5411, expenses the suite 220, 04 factors.

PDH Credits—Certificates for PDH credits will be available after the meeting through a link on the meeting website: http://2013am.eeri.org

> **EERI ANNUAL MEETING** February 12-15, 2013

