



New EERI Seminar:

# Soil Liquefaction During Earthquakes

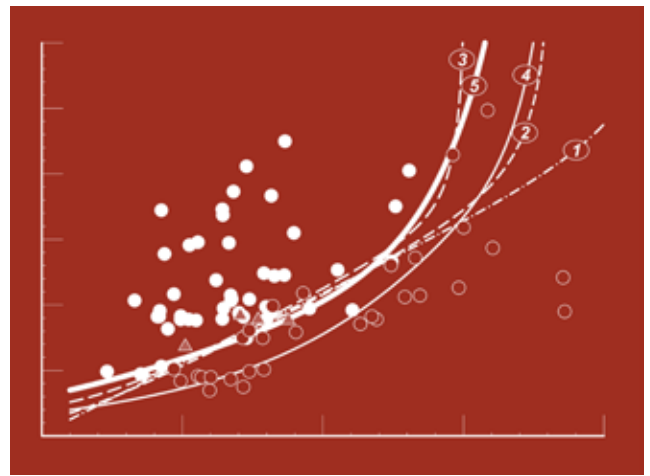
*Find out about recent progress in the evaluation of liquefaction hazards during earthquakes and learn how to estimate the potential for triggering liquefaction, its consequences, and its mitigation.*

This day-long seminar will be given by I. M. Idriss and R. W. Boulanger, authors of the recently published EERI monograph, *Soil Liquefaction During Earthquakes*. The monograph and seminar provide a synthesis – in one accessible resource for students, practicing engineers, and other professionals – of progress in the study of soil liquefaction since 1982.

## Instructors

**I. M. Idriss** is Professor Emeritus at the University of California at Davis, having joined the faculty in 1989 after 20 years at Woodward-Clyde Consultants, where he was a Senior Principal. He has been heavily involved in research, development, and application of engineering procedures in geotechnical earthquake engineering since 1964. He continues to serve on several consulting or review boards for U.S. and international companies and for state and federal agencies. He has received many awards and honors over the past 40 years, including the first H. Bolton Seed Medal from ASCE in 1995, the Distinguished Scholarly Public Service award from UC Davis in 1999, and election to the U.S. National Academy of Engineering in 1989, Honorary Membership in the Japanese Geotechnical Society in 2005, and Distinguished Membership in ASCE in 2008.

**R. W. Boulanger** has been Professor at the University of California at Davis since 1992. His research emphases are on liquefaction and its remediation, seismic soil-pile-structure interaction, and seismic response of earth structures. He serves as a technical specialist on several dam safety and seismic remediation projects for private, state, and federal organizations. His honors and awards include the Norman Medal, the Walter L. Huber Civil Engineering Research Prize, and the Arthur Casagrande Professional Development Award from ASCE.



## 2009 Seminar Dates and Locations:

|  |   |
|--|---|
| Tuesday, March 10:<br>Pasadena, California | Tuesday, March 17:<br>San Francisco, California |
| Thursday, March 12:<br>St. Louis, Missouri | Thursday, March 19:<br>Seattle, Washington      |

## Program (8 a.m.- 5 p.m.)

### Fundamentals of Soil Liquefaction Behavior:

Fundamental aspects that are important in understanding the development and limitations of engineering procedures covered in the seminar and monograph.

**Triggering of Liquefaction:** Procedures used to evaluate liquefaction triggering, including discussion of geologic considerations, the analysis framework, in-situ testing, liquefaction triggering correlations, and examples.

**Consequences: Residual Shear Strength of Liquefied Soils:** Procedures used to evaluate, and mechanisms affecting, the in-situ residual shear strength of liquefied soils, as required for evaluating the potential for slope instability.

**Consequences: Lateral Spreading and Post-Liquefaction Settlement:** Procedures used to evaluate the lateral spreading of mildly sloping ground and one-dimensional settlement caused by reconsolidation of the liquefied soils.

**Mitigation of Liquefaction Hazards:** Common methods of ground improvement, including discussion of improvement mechanisms, constructability issues, and mitigation design strategies.

**Cyclic Softening of Clays and Plastic Silts:** Procedures used to evaluate the potential for cyclic softening and associated ground deformations in clays and plastic silts, and the soil characteristics that can guide the selection of appropriate engineering procedures.

Register online at [www.eeri.org](http://www.eeri.org) or complete the form on the reverse side.



**EARTHQUAKE ENGINEERING RESEARCH INSTITUTE**

499 14th Street, Suite 320 • Oakland, CA 94612-1934

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**COSPONSORS:**

The Northern California, Southern California, and New Madrid Chapters of EERI

**Complete this form or register online at [www.eeri.org](http://www.eeri.org).**

*Parking information is online.*

- I wish to attend the **March 10** Pasadena seminar:  
Beckman Auditorium, 332 S. Michigan Ave, Pasadena, CA 91106, web <http://events.caltech.edu/find.html>  
phone (626) 395-3298
- I wish to attend the **March 12** St. Louis seminar:  
Engineer's Club, 4359 Lindell Blvd, St. Louis, MO 63108, web <http://www.engineersclub.net/>  
phone (314) 533-9333
- I wish to attend the **March 17** San Francisco seminar:  
Hotel Whitcomb, 1231 Market Street, San Francisco, CA 94103, web <http://www.hotelwhitcomb.com>  
phone: (415) 626-8000
- I wish to attend the **March 19** Seattle seminar:  
HUB-West Ballroom, University of Washington, Seattle, WA 98195, web <http://depts.washington.edu/sauf/hub/directions.php>, phone (206) 543-8191

*Fee includes lunch and seminar notes.*

Members of EERI and cosponsoring organizations: \$225\_\_\_

EERI Subscribing Members: \$200\_\_\_

Non-Members: \$325\*\_\_\_ (includes a copy of the monograph)

EERI Student†/Young Professional/Retired Members: \$113\_\_\_

Add for an additional copy of the monograph: \$25\_\_\_

*(A \$20 discount off the member price)*

**\*NEW MEMBERS:** JOIN EERI TODAY—Pay an introductory rate of only \$150 for 2009 membership (regular dues are \$250) and save \$100 on seminar registration (for a total savings of \$200):  **I wish to join** (enclose total \$400, includes the monograph).

†**STUDENTS:** JOIN EERI TODAY—Save \$212 on registration and pay only \$50 for regular student membership or \$25 for e-student membership:  **I wish to join** (enclose total \$188 or \$163 for e-students, includes the monograph). (If this option is chosen, you will receive a form requiring the signature of a school's professor or officer certifying student status.)

**TOTAL AMOUNT ENCLOSED** \_\_\_\_\_ (LATE FEE \$25)  
*(ADD \$25 if received less than one week before the seminar you are attending.)* If you cancel your registration one week or more before the seminar, your refund will be subject to a \$15 fee for handling. There will be a substantial penalty for cancellations made less than a week before the seminar.

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