



The Official

OREGON SECTION AEG NEWSLETTER

February Meeting Details

Date: Tues February 19, 2008

Location: Lucky Lab Beer Hall

1945 NW Quimby

Portland, OR

6:00 pm Social

7:00 pm Dinner

8:00 pm Presentation

Dinner: Chicken or Veg. Bento

\$16 Dinner (\$8 Students)

Reservations: mwegner@cornforthconsultants.com with "AEG Reservation" in the subject line or 971-222-2047 by 4pm Thursday February 14th.

There is a \$2 surcharge for those who do not reserve by the deadline.

Upcoming Meetings:

- March 18, John Martin, Brownsville Dam
- April 15, AEG Student Night
- May 20, John Clague, Jahns Lecture



February Meetings Guest Speaker is Ivan Wong from URS Corporation - Presentation: A DECADE AND MORE OF A "WHOLE LOT OF SHAKING": LESSONS LEARNED

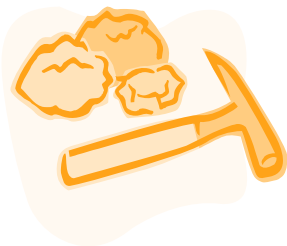
Our understanding of earthquake hazards is, in a large sense, a step-wise process with each step being a significant large earthquake. In the past decade and a half, the height of the steps has been large because of improved technologies in instrumentation and simply because the earth has been willing to divulge its secrets at convenient places for us to make visual observations, i.e., the earth's surface. Beginning with the 1994 moment magnitude (M)

6.7 Northridge, California, earthquake there have been a string of notable events where much has been learned including the 1995 M 6.9 Kobe, Japan; 1999 M 7.6 Chi Chi, Taiwan; 1999 M 7.5 Ismit, Turkey; and 2004 M 9.3 Great Sumatra earthquakes. Lessons in strong ground shaking, surface fault rupture, liquefaction, and tsunami inundation were learned in these events and they have been significant in advancing our understanding and

ability to predict the impacts of these earthquake hazards. Some lessons, however, remain unchanged and that is poorly designed and/or constructed buildings particularly in poorer countries kill and injure people, often resulting in many thousands of casualties. In this presentation, I will describe these lessons and discuss their impacts on evaluating seismic hazards, and their implications to mitigating such hazards in the Pacific Northwest.

Bio: Ivan Wong

Ivan Wong is a Principal Seismologist, Vice President, and Manager of the Seismic Hazards Group of URS Corporation. He has a broad and extensive experience in the fields of seismology and seismic geology and is recognized for his work in seismic hazards in the Pacific Northwest. Two research areas that Mr. Wong has focused on have been the estimation of ground shaking from Cascadia subduction zone earthquakes and the potential for large intraslab earthquakes beneath western Oregon. At URS, Mr. Wong has directed and participated in the seismic hazard evaluations of more than 300 critical and important facilities worldwide including numerous dams and lifeline systems in the Pacific Northwest. He is a consultant to FEMA and is currently leading a Working Group to establish a near-real time ShakeMap/HAZUS capability in the Puget Sound to be used for emergency response. Funded by the U.S. Geological Survey through the NEHRP program, Mr. Wong has developed earthquake ground shaking maps at a microzonation scale for several urban areas in the U.S. including the Portland metropolitan area. In addition to his work at URS, he has also been particularly active in serving the U.S. Geological Survey on several review and advisory panels including the review panel for the 1996 National Hazard Maps. Mr. Wong has been actively involved in the activities of several professional organizations. He has been an invited speaker and lecturer at more than 100 conferences, workshops, and meetings. He is currently President of the Northern California Chapter of the Earthquake Engineering Research Institute (EERI). Mr. Wong has authored or co-authored more than 250 professional publications. He is a graduate of Oregon State University, Portland State University, and the University of Utah.



Message From The Chair

I hope no one is getting bored! Our January joint meeting with ASCE continued a run of talks regarding flooding and mass movement that began in December. This month we stay with geologic hazards, but get something of a break (ouch) as Ivan Wong will be discussing Oregon's regional seismicity, a subject that has seen astounding advances in the past couple of decades. If I may pre-appropriate an anecdote here: Ivan often tells the story of the first (I think) earthquake he experienced – a 5.2 on 9 Nov 1962, located under Vancouver or North Portland. I remember that one, too (you always remember your first time ...) – especially as it occurred less than a month after the Co-

lumbus Day Storm, and a couple of weeks after the Cuban Missile Crisis. Folks around here were a bit spooked that autumn.

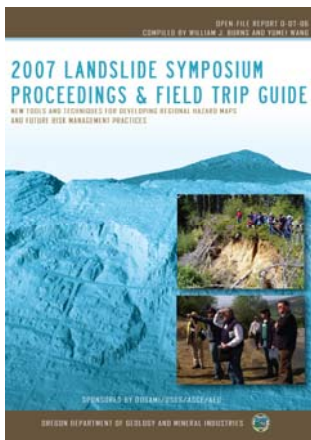
Speaking of the next meeting, note that we are back on our regular third-Tuesday nights for the rest of the season: Feb 19th, Mar 18th (leap year!), April 15th (student night – get your taxes done early and come glimpse the future), and May 20th (Jahns Lecture). Thanks for your patience with our schedule manipulations over the past few months.

As of early January, more than 100 of us had renewed our AEG memberships, including about 16 new members who joined the section since last spring. (About two dozen yet to renew.) So from

Seaside and Tillamook to Pocatello and Idaho Falls, Scappoose and Battle Ground to Gold Beach and Ashland – welcome, or welcome back! Both the national association and this section rely on your dues to support our activities. Thanks also to the people and organizations who volunteer their efforts to help make AEG go – including the firms, agencies and advertisers listed a few inches below, and the folks shown on the back page of this newsletter. (Think about becoming one of them – you could be standing on this virtual soap-box in a few years!)

Matt Brunengo

AEG Oregon Section Chair



2007 Landslide Symposium Proceedings and Field Trip Guide Report from DOGAMI

On April 26–28, 2007, a statewide Landslide Symposium and two field trips focusing on landslides in Oregon was held in Portland. Sponsored by the Oregon Department of Geology and Mineral Industries (DOGAMI), the U.S. Geological Survey (USGS), the American Society of Civil Engineers (ASCE), and the Association of Engineering Geologists (AEG), the Landslide Symposium and field trips provided a forum for the exchange of information on the latest research, tools and techniques in understanding Oregon's landslide risks. The Symposium was attended by geotechnical practitioners, including engineering geologists and engineers from the private sector, government, and academia.

The Open-File Report O-07-06, 2007 Landslide Symposium Proceedings and Field Trip Guide: New tools and techniques for developing regional hazard maps and future risk management practices, is a summary of the Landslide Symposium and includes presentation summaries, posters, the 24 page field trip guide and many of the PowerPoint presentations. The report was compiled by William J. Burns and Yumei Wang, Oregon Department of Geology and Mineral Industries and is now available.

Special Meeting of the State Board of Geologist Examiners

The Chairman of the Oregon State Board of Geologist Examiners will convene a Special Meeting of the Board at 5:00 PM on Monday, January 21, 2008, via telephone conference call. During the meeting, the Board will meet in Executive Session to deliberate and consult with counsel regarding Coffey v. OSBGE (CA A134310), pursuant to ORS 192.660(2)(f) and (h). Thereafter, the Board may meet in public session to make a decision. The telephone meeting will be initiated from the Board office, Sunset Center South, 1193 Royvonne Avenue SE, Suite 24, Salem, Oregon 97302. The meeting location is accessible to people with disabilities. A request for an interpreter for the hearing impaired or for other accommodations for persons with disabilities should be made at least 72 hours before the meeting via the contact name below. For additional information, please direct your questions regarding the meeting to the Board office.



*"Keen observation is at
least as necessary as
penetrating analysis"*

Karl Terzaghi

Job Opportunity: SHN Consulting Engineers & Geologists, Inc

SHN Consulting Engineers & Geologists, Inc., headquartered in Eureka, CA and established in 1979, is a growing firm, dedicated to small-company values while providing quality-driven services. We are a science-based consulting firm providing engineering, survey, planning, geo-science, and environmental services located in the rugged, pristine paradise of northern California and southern Oregon. Finding the right people is vital to bringing our vision to life. SHN has a diverse work force, a mix of engineering and geology related professionals and support staff which have developed a unique blend of professionalism with a casual, friendly, family-oriented work environment. (SHN is an equal opportunity employer). We are seeking three career-driven Senior Geologist/Engineering Geologists for our Eureka, Willits and Coos Bay, OR offices. We desire project managers with extensive experience in engineering geology, applicable to the Northern California/Southern Oregon region. Marketing skills are a must! Successful candidates will have the ability to lead all phases of complex projects, including budgeting, scoping, managing staff and report writing. The position requires strong written and oral communication skills.

Qualifications/Education/Registrations/Certifications: * B.S. in Geology from an accredited university, M.S. preferred. * Minimum of three (3) years technical experience and at least five (5) years of professional project management related experience preferred. * California or Oregon PG/CEG license or be able to obtain thru comity within 1 year. * Must be a U.S. citizen or authorized to work in the U.S. * Must possess a valid California or Oregon Drivers License by hire date, Salary: Commensurate with experience.

For additional information please visit our website: www.shn-engr.com. Submit a letter of interest and resume to Taylor Marie Baker, Human Resources Manager, tbaker@shn-engr.com.

The Oregon Section Newsletter

OREGON SECTION AEG NEWSLETTER is published monthly from September through May. Subscriptions are for members of AEG affiliated with the Oregon Section or other Sections, and other interested people who have requested and paid a local subscription fee of \$10.00. E-

mail subscriptions are free. News items are invited and should be sent to: Bill Burns, OR Section AEG Newsletter Editor, Oregon Department of Geology, 800 NE Oregon Street, Portland, OR 97232, e-mail: bill.burns@dogami.state.or.us, phone (971) 673-1555. Electronic

media is preferred. Deadline for submittal is Friday three weeks before each meeting. Advertising: business card \$10/mo, \$100/yr; ¼ page \$30/mo, \$200/yr; ½ page \$35/mo, \$350/yr. Please notify Bill if you have a change to your email or mailing address.

The Oregon Section is also on the web at <http://www.aegoregon.org>
National AEG webpage: <http://aegweb.org>


Thanks For Supporting AEG !

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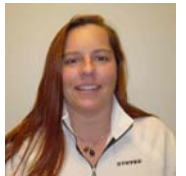
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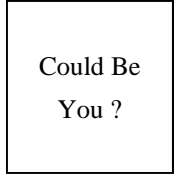
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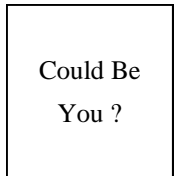
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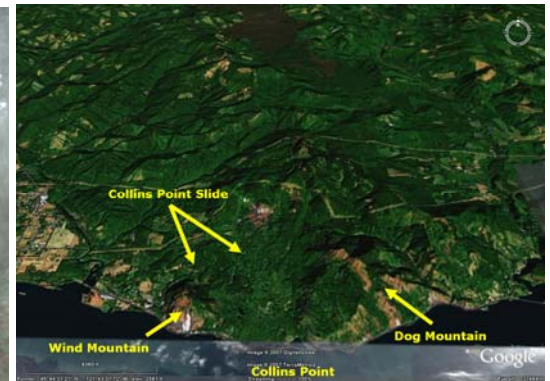
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Photos of the Month

The February photos are from Anne MacDonald at URS Corporation. The left photo is a flowing forest. This stand of trees, located on the eastern side of the Girl Scout's Camp Arrowhead property, is literally flowing downhill toward the Columbia River on the surface of an active portion of the Collins Point slide (technically an earthflow). First studied with respect



to Bonneville reservoir drawdown in the early 1970's by Shannon & Wilson for the Corps, it will be studied in greater detail by Scott Burns' PSU Engineering Geology class this winter (2008). The PSU study will be used by the Girl Scouts to better understand the impact of the slide on their camp operations. Anne MacDonald, Ruth Wilmoth, and Drew Harvey are also involved in this effort, which is intended to help keep the camp under Girl Scout ownership for the foreseeable future. The right photo is a Google Earth image of the Collins Point slide. Slide damage has been recorded over the years by Washington State DOT on Highway 14, by Burlington Northern Railway, by BPA as some of their transmission towers were displaced, and the Girl Scouts (collapsed buildings and a water line break in the late 1960s – early 1970s). The slide is focused between Wind and Dog mountains, but some slide debris was diverted to the west along the north flank of Wind Mountain.

For more information on Anne see <http://www.urscorp.com/>

To submit a photo, please email the picture in a JPEG or TIF format to bill.burns@dogami.state.or.us. Also include a short paragraph describing the photo and project.