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and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

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NOVEMBER MEETING:

Speaker: **Ivan Wong**

Talk: **“Great Cascadia Earthquake Tricentennial
- A Summary of the June 2000 GSA
Penrose Conference in Seaside, Oregon”**

Date: **Thursday, November 16, 2000**

Times: 6:00 PM Social hour
 7:00 PM Dinner
 8:00 PM Presentation

Where: ***McMenamins Cedar Hills***
2927 SW Cedar Hills Blvd.
Beaverton, Oregon

Menu: \$10/person; Chicken Extravaganza, High Pasta,
Communication Breakdown Burger, Cheeseburger,
Garden Burger

Reservations: Call David James, 503-684-3460 (ext. 226) by noon Friday (11/10/00)
“A reservation made is a reservation paid.” Please call to cancel if you can not attend.
Thank you!

**“Great Cascadia Earthquake - A
Summary of the June 2000 GSA
Penrose Conference in Seaside, Oregon”**

**Ivan Wong
URS Corp.**

ABSTRACT

The year 2000 marks the tri-centennial of the last great (magnitude 8 or larger) earthquake within the Cascadia subduction zone. Coastal and offshore studies have confirmed that many great plate-boundary earthquakes have struck the Pacific Northwest in the Holocene, and geodetic studies have shown that the subduction zone is accumulating strain that will be released in a future earthquake. To commemorate the tri-centennial, almost 100 geologists, geophysicists, engineers, and public officials gathered in Seaside, Oregon, in June 2000, to critically review current knowledge about great Cascadia earthquakes, clarify the hazards posed by these earthquakes, discuss appropriate strategies for reducing earthquake losses, and identify priority research directions. Further understanding of the great earthquake potential of the Cascadia subduction zone is required for seismic hazard characterization, engineering design, emergency planning and response, and other mitigation efforts in a region with a population of some 6 million people. The conference consisted of three days of indoor sessions, a one-day excursion to examine evidence of past Cascadia earthquakes, and a public forum. A huge amount of progress has been made in understanding the behavior of the Cascadia subduction zone over the last two decades. Fifteen years ago, scientists were debating whether or not great earthquakes occur in Cascadia. Today, few scientists doubt that great earthquakes occur in this region; rather the discussion has shifted to questions such as the magnitude of the earthquakes and attendant tsunamis, the location and width of the seismogenic zone, and the involvement of crustal structures in plate-boundary rupture. These issues, which were topics of discussion and debate at the conference, will be described.

Message from the Chair (Nov. 2000)

AEG and the Oregon Section are the people that participate. It is a source of information and continuing education in engineering geology, a career resource, a network of professionals locally and world wide, and it is socializing with friends and associates at local brewpubs and restaurants. Along with these and other added values, it is our involvement that determines its success.

PERMANENT HEADQUARTERS

Our local members, but when you think about what headquarters does for the association, it is important. This may not appear to be an important issue to many of permanent location for the staff that performs the association's day-to-day operations is absolutely necessary. The present HQ at TAMU is good with benefits for the association, but it is temporary. It appears that we have about five years left at TAMU. A relocation committee has performed a process to evaluate possible locations, and has come up with a site near Denver that looks appropriate. However, our relocation fund is not as large as it needs to be, and there will likely be future efforts to increase it.

OCTOBER MEETING AND FIELD TRIP

Last month we had an excellent turnout for the meeting at the Lucky Labrador with Doug Geller as our guest speaker. Doug told us about the results of the City of Portland's investigation into the groundwater resources within the Bull Run Watershed. The story sounds like other groundwater studies many of us have experienced – finding water where you do not expect it and not finding it where you planned. It would have been fun watching the core drillers trying to work their equipment against those artesian pressures!

The debris flow field trip was very successful. The turnout was a reasonable number, and the weather was decent with great fall colors. The morning session watching video and listening to some of our local experts turned out to be an excellent review of the latest research and the regulating methods that will be used to minimize the risk from these hazards. The field visits were good and easily accessible examples of past and future flow sites. The response to the trip was favorable and we can probably look forward to another one in the future.

VACANT COMMITTEE CHAIRS

The Oregon Section has a few vacant positions for people that are interested in contributing to our group. Please contact me if you would consider helping to plan future field trips (Field Trip Chair) and short courses (Short Course Chair), or would like to help compile and maintain the local section history (History Chair).

THIS MONTHS MEETING

I am excited to have Ivan Wong visit our section. He will be presenting a summary of the GSA Penrose Conference that was held in Seaside this past June. The Cascadia Subduction Zone is a hot and evolving subject, and I anticipate a packed house at our old favorite McMenamans on Cedar Hills Boulevard. Be sure to call in your reservation.

I look forward to seeing you at the dinner meeting.

Charlie Hammond
AEG Oregon Section Chair

AEG CALENDAR

- Nov. 3 Oregon Center For Advanced Technology Education
Civil Engineering Lecture Series:
Stacy Bartoletti, Degenkolb Engineers, Portland, OR
and Jim Hord, Hewlett Packard Co. Corvallis, OR
“Seismic evaluation and upgrade of a high tech manufacturing facility”
(See announcement below: “Short News Items”)
- Nov. 16 Location: Cedar Hills McMenamins
Speaker: Ivan Wong, URS Corp.
"Great Cascadia Earthquake Tricentennial – A Summary of the
June 2000 GSA Penrose Conference in Seaside, Oregon"
- Dec. 1 Oregon Center For Advanced Technology Education
Civil Engineering Lecture Series:
Donald Ballantyne, PE, Vice President, EQE International, Tacoma, WA
“Earthquake effects on lifeline systems, with a focus on the Portland
Water Bureau System vulnerability assessment”
(See announcement below: “Short News Items”)
- Dec. 21 Location: Lucky Labrador Pub
Speaker: Tom Horning
"Tsunami Hazards on the Northern Oregon Coast"
- Jan. 18 Location: TBA
Speaker: Gary Peterson, Squire Associates
"Salem Landslide Study/Public Policy issue"

Short News Items

Civil Engineering Lecture Series: OCATE = Oregon Center For Advanced Technology Education announces three free lectures considering the effects of seismic hazards in the Pacific Northwest. They are listed by date and title in the CALENDAR above. The location of OCATE is in the CAPITAL Center 18640 NW Walker Road at 185th. Ave. Beaverton. OR From Hwy 26 west to exit 64 185th. Ave. Turn south onto 185th. And travel approximately 1 mile to Walker Road. The CAPITAL Center is on the southwest corner of the intersection. For more information call 503-725-2200 or visit www.ocate.edu

Green Briefcases: Remember those green briefcase bags that we have left over from the Seattle annual meeting? Well, now is the time to pick one or more up for \$5.00 each. That's less than you spend for lunch! People that already have one say "they were worth the old price of \$10.00 and I am going to buy another!" Get one before they are all gone!!

E-Mail "Newsletter:" Oregon Section AEG will not send a "Paper Copy" of the newsletter to those that the E-mail address reaches unless they request the it. If you don't get the newsletter E-mail and want it that way please send me your E-mail address and I will add you to the list. This will save the Oregon Section significant costs in postage etc. To get on the E-mail list contact: Dave Michael at dmichael@odf.state.or.us

Program Chair: David James is the "2001, Oregon Section Program Chair." He is still looking for spring presentations. Contact him if you have an interesting presentation to give. He can be reached at 684-3460 (ext: 226).

AEG Homepage: check it out: [http:// www.aegweb.org](http://www.aegweb.org)

The Board of Geologist examiners: 707 13th. St. SE, Suite 275 Salem, OR, 97301
Phone (503) 566-2837, Fax (503) 362-6393 e-mail: osbge@open.org
contact *Susanna Knight*, Administrator for assistance with Board issues.

If you have NEWS items that you would like to include, please contact or E-mail Dave Michael – newsletter editor at dmichael@odf.state.or.us

AEG "Oregon Section" - OFFICERS

Area codes are 503 unless noted:

Position	Name	Telephone Daytime	Home	FAX
Chair	<i>Charlie Hammond</i> e-mail: chammond@cornforthconsultants.com	452-1100	274-1437	452-1528
Chair Elect	<i>Andrew Harvey</i> e-mail: aharvey@kleinfelder.com	644-9447	617-9486	643-1905
Secretary	<i>Ruth Wilmoth</i> e-mail cgivanc@aol.com	(360) 944-7397	(360) 944-6985	
Treasurer	<i>Warren Krager</i> wkrager@klinefelder.com	644-9447	684-4902	643-1905
Past Chair Newsletter Legislative	<i>Dave Michael</i> " e-mail: dmichael@odf.state.or.us	359-7448	357-0238	359-9514
Membership	<i>Tim Blackwood</i> e-mail: tblackwood@carlsonstesting.com	684-3460	236-7792	620-5940
Programs	<i>David James</i> e-mail: djames@carlsonstesting.com	684-3460	252-3940	

MEMBERSHIP

For application forms for Membership in AEG (Member, Associate, Affiliate, or Student), call Tim Blackwood the membership chair at (503) 684-3460 (w). He will also have copies at the monthly meetings. Membership is on a calendar year basis. If you are an AEG member, headquarters will also collect our Oregon Section dues of \$10, which just covers our newsletter costs. If you would like to subscribe to the local newsletter (comes out 9 times a year) without being an AEG member, fill out the form below and mail to Dave Michael. Note: the following form is only for people and organizations that wish to subscribe to the Oregon AEG Newsletter without being members of AEG.

APPLICATION FOR OREGON SECTION, AEG "NEWSLETTER MAILINGLIST ONLY":

NAME _____

AFFILIATION: _____

MAILING ADDRESS: _____

TELEPHONE: _____

Mail form and \$10 to Dave Michael c/o ODF NWOA, 801 Gales Creek Rd. Forest Grove OR 97116

***ANNOUNCEMENT OF OUR NEXT
MEETING***

***Nov. 16, 2000
AEG***

*Dave Michael, Editor
Oregon Section, AEG
c/o ODF NWOA
801 Gales Creek Rd.
Forest Grove, OR 97116*