



OCT., 2000 VOLUME 00, NUMBER 10

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# ***OCTOBER MEETING:***

Speaker: **Doug Geller**

*Portland Water Bureau, Engineering Services Group Hydrogeologist*

Talk: **"Groundwater Resource Exploration in the**

**Bull Run Watershed, City of Portland, Oregon"**

Date: **Thursday, October 19, 2000**

Where: **LUCKY LABRADOR PUB**

*915 SE Hawthorne, Portland*

Cost **\$10**

Menu: **BENTO:** *Choice of Chicken or Veggie*

**Reservations:** Call David James, 503-684-3460 (ext. 226) by noon Tuesday (10/17/00)

"A reservation made is a reservation paid." Please call to cancel if you can not attend. Thank you!

## **GROUNDWATER RESOURCE EXPLORATION**

### **IN THE**

## **BULL RUN WATERSHED, CITY OF PORTLAND, OREGON**

**Presentation to Oregon Section AEG Meeting**

**October 19, 2000**

**Doug Geller, Hydrogeologist, Portland Water Bureau**

### **ABSTRACT**

The City of Portland Water Bureau recently completed the first phase of an exploratory test drilling program in the Bull Run Watershed, located 25 miles east of the City. The project targeted a series of potential aquifers within the Columbia River Basalt Group (CRBG). The initial investigation used an area of city-owned land with easy drilling access below the Dam No. 2 headworks. The field investigations identified a potentially productive groundwater resource, although questions remain about the long-term sustainability of the resource, and the potential water quality effects of long-term pumping. The talk will review the study approach, major findings, some interesting detailed findings, what we think the most significant data gaps and uncertainties are, and what the next steps in the project involve. Those interested in basalt stratigraphy, hydrogeology, and groundwater chemistry will hopefully find the talk interesting.

### **BACKGROUND ON THE SPEAKER**

Doug Geller is the lead hydrogeologist with the Engineering Services Group of the Portland Water Bureau. Mr. Geller specializes in groundwater resource development, management, and protection. Doug has practiced as an Oregon registered geologist since 1992. He is managing a 20 million-gallon-per day expansion of the Columbia South Shore Well Field which includes drilling numerous 20 to 24-inch diameter production wells to depths over 600 feet in the Troutdale Formation, as well as managing an aquifer storage and recovery pilot project. In his spare time, he is carrying on with the Bull Run exploratory project. His M.S. and B.S. education in geology were from the University of Vermont and from the University of Colorado. After working a year with the U.S. Geological Survey in Denver in the early 1980s, he spent over 13 years in the consulting engineering industry, including about 8 years in the Pacific Northwest, most recently with Squier Associates.

## *Message from the Chair (October 2000)*

I enjoyed going to the Annual Meeting in San Jose and representing the Oregon Section at the Board Meeting. The meeting was successful; the attendance was very good and it appears that a financial surplus was attained helping the local section (Sacramento) and the Association. The meeting also had excellent support from the exhibitors. Field trips and short courses were well attended and none were cancelled. All Board members and Headquarters (HQ) staff thought the meeting was well managed and were pleased with the results (even with a couple snafus by the hotel). I also heard some good presentations. Local folks there included: Dave Michael, Scott Burns, Gary Peterson, Dorian and Tom Kuper, Tim Blackwood, Jason Hinkle, George Freitag, Anne MacDonald, Sue Bednarz, Tim Pfeiffer, and with my short name recognition I am sure that I left a few out.

The San Jose Annual Meeting was the first time the Association handled all of the meeting finances. When Oregon Section held the annual meeting in 1997, section members managed all of the expenses while the income went through HQ. In San Jose, the expenses as well as the income was handled by HQ. This arrangement releases the section from some of the effort that is necessary to hold an Annual Meeting, and the AEG staff will be able to carry their financial experience through to future meetings. Also, this arrangement will make it easier for small sections to hold an annual meeting.

The annual board meeting went smoothly. There were no changes to the constitution and bylaws, which I understand was a common occurrence and time consuming affair at past board meetings. Along with the reports from the Association officers, executive director and committee Chair's, and the review of the proposed AEG budget for 2001, the board meeting was also spent talking about long-term goals for the Association. The following paragraphs are brief reviews of a couple of issues covered. I will save other issues for upcoming newsletters.

### **HEADQUARTERS**

HQ at Texas A&M University went through the first full year at College Station without the reorganization following the unfortunate loss of Norm Tilford. Basic operations were handled well and it looks like the Association will be under its 2000 budget. Member services that we receive from HQ are an important part of AEG and they look better for the coming year. The full and part-time staff is working well. Chris Mathewson, our Executive Director who handles the day-to-day operations of the Association, is doing a very good job. His efforts will allow the Executive Council and board members to focus on more important issues.

### **LONG TERM ASSOCIATION GOALS**

New Association President Rex Upp brought to the board's attention to a number of issues that have been stewing within the Association for a while. Some of the issues include: (i) lack of participation within a number of the AEG sections and their representative board members lack of attendance at the Annual and Mid-Year Board meetings; (ii) large geographic section areas and the apparent disenfranchising of members that are too far

away to attend local meetings; and (iii) lack of membership growth over the past seven or so years. There are no easy and short term answers to these issues, and the Board is in a process to work toward developing strategies to address them.

## **LOCAL FIELD TRIP**

You can look forward to a fun and enlightening field trip on Saturday October 21, two days after our regular dinner meeting. We have the opportunity to watch video of the USGS experimental debris flow flume with live narration by Dick Iverson. Dick will be providing the latest results of experiments that are being run including models of the failure mechanisms. After a review of public policy we will visit three debris flow sites, including the top of a flow, a big impressive debris flow, and one waiting to occur. Look for the announcement in this newsletter.

## **VACANT COMMITTEE CHAIRS**

The Oregon Section has a few vacant positions for people that are interested in another level of participation within the organization. If you are interested in helping 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), please contact me.

## **THIS MONTHS MEETING**

At this months dinner meeting we will be hearing Doug Geller, hydrogeologist for the City of Portland, give a presentation on the exploration of groundwater resources in the Bull Run Watershed. I though the shed was where they collected surface water!?! Come join us at the Lucky Labrador and hear about an interested groundwater resource investigation.

I look forward to seeing you at the dinner meeting.

Charlie Hammond

AEG Oregon Section Chair, 2000

# ***AEG CALENDAR***

Oct. 13 Oregon Center For Advanced Technology Education

Civil Engineering Lecture Series:

Ivan G. Wang, Senior seismologist & manager, Seismic Hazards Group  
URS Corp., Oakland, CA

"A new perception of seismic hazards in the Pacific Northwest  
and its impact on engineering practice"

(See announcement below: "Short News Items")

Oct, 19 Location: Lucky Labrador Pub

Speaker: Doug Geller, City of Portland

"Groundwater Resource Exploration in the  
Bull Run Watershed, City of Portland, Oregon"

Oct. 21 Oregon Section Field Trip

"Debris Flows: Mechanics and Public Policy"

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.

"Earthquake Hazards in the Pacific Northwest"

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 185<sup>th</sup>. Ave. Beaverton. OR From Hwy 26 west to exit 64 185<sup>th</sup>. Ave. Turn south onto 185<sup>th</sup>. 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](http://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](mailto: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 13<sup>th</sup>. St. SE, Suite 275 Salem, OR, 97301

Phone (503) 566-2837, Fax (503) 362-6393 e-mail: [osbge@open.org](mailto: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](mailto:dmichael@odf.state.or.us)**

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### ***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.*

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**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***

***Oct. 19, 2000***

***AEG***

*Dave Michael, Editor*

*Oregon Section, AEG*

*c/o ODF NWOA*

*801 Gales Creek Rd.*

*Forest Grove, OR 97116*