



The Official

# Newsletter

of the Oregon Section Association of Engineering Geologists

Serving Professionals in Engineering, Environmental, and Groundwater Geology

## NOVEMBER 2002 SECTION MEETING

KEN LITE, OREGON DEPARTMENT OF WATER RESOURCES

### Understanding the Effects of Groundwater Development on Streamflow in the Upper Deschutes Basin, Oregon

A hydrologic investigation of the upper Deschutes Basin recently completed by the U.S. Geological Survey (USGS) and Oregon Water Resources Department (OWRD) quantified the groundwater / surface water connection in the basin and developed a numerical flow model that incorporates this connection. The study concluded, among other things, that groundwater discharge contributes about 85 percent of the 4,660 cfs mean annual flow in the Deschutes River, with much of it occurring near the confluence with

the Metolius and Crooked Rivers.

Concerns have been raised that groundwater pumping resulting from the rapid development and growth in the upper Deschutes Basin is impacting already stressed stream reaches within the basin and is interfering with a state-designated scenic waterway and instream water rights for fish and wildlife protection. Measures to mitigate the effects of all new groundwater use are being implemented as part of a water-management strategy for the upper Deschutes River system.

#### THANKS FOR SUPPORTING OREGON AEG

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- Cornforth Consultants, Inc.
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- Kuper Consulting
- Northwest Geophysical Assoc, Inc.
- Oregon Department of Forestry
- Portland State University
- URS Corporation, Inc.

**This Month's Meeting is on Tuesday Nov. 19**

**McMenamins**  
2927 SW Cedar Hills Blvd  
Beaverton, Oregon

Burger Buffet  
Garden burgers available upon request  
\$12 per person when you call ahead  
\$14 at the door  
\$6 for students

6:00 pm Social  
7:00 pm Dinner  
8:00 pm Presentation

Call URS at 503-222-7200 by 4 pm  
Thurs. Nov. 14 with your meal  
preference to make your reservation. A  
reservation made is a reservation paid.

**Geo-Tech Explorations  
is sponsoring the social hour!**

## MESSAGE FROM THE CHAIR

I recommend a quick review of the **Calendar** near the end of this newsletter to note changes in the speaker lineup since the last newsletter. Scott Burns will speak as AEG President next month and the joint meeting with the ASCE geotech group will be in January this year; other speakers have also been shifted. Our program chairs, Jason Hinkle and Tim Richter, have done a superb job of lining up a diverse selection of interesting and pertinent topics. Be sure to mark your calendars now. Also, consider topics or types of work that you feel have not been covered at our section meetings this year; we will have a short, open discussion at this month's

meeting to hear what our members want to hear in the future. We want our section meetings to be means to meet new colleagues, further develop relationships with old colleagues, and increase our knowledge base to improve our practice. Please join to make our section the best it can be.

There are still a large number of our members who have not paid dues for the 2003 calendar year. These dues were due in September. If you haven't paid for next year yet, I urge you to do so immediately. While you're at it, consider geologists you work with both within and outside your company who may not be AEG members and

extend to them an invitation to join AEG. I bring membership forms to every meeting if you need any. It now costs only \$75 for new members to join.

Lastly, be sure to read in this newsletter what our student chapter at PSU has been up to and a bit of what they have planned for this year. I am impressed with the commitment these students have toward making AEG a significant part of their engineering geology experience.

See you at the November meeting; don't forget to come a bit thirsty.

*Ruth Wilmoth*  
*AEG Oregon Section Chair*

## MISCELLANEOUS

### 38th GEOLOGICAL ENGINEERING AND GEOTECHNICAL ENGINEERING SYMPOSIUM

to be held March 18-21 in Reno on the University of Nevada, Reno campus. March 18 will include a choice of short courses [tentatively, one on geophysics, one on geosynthetics, one on laterally loaded pile/shaft analysis with the Strain Wedge Model program developed for Caltrans (including consideration of liquefaction and lateral spread)] and a field trip. Technical sessions will follow on Wed. March 19 through Friday March 21. There will be no separate short course fee; it is already part of the registration fee. Registrants will also be treated to an evening concert from the community concert series on the eve-

ning of Wed. March 19 (Irish and Scottish music). It is an opportunity to bring your spouse along to enjoy the activities and area (Lake Tahoe, skiing, etc.). Extra luncheon/banquet and concert tickets and spouses program are available at nominal cost.

There will also be a corporate rate for several members of the same company to attend all technical sessions (one set of proceedings, no luncheon/banquet and three spots in short courses or field trip).

David Elton will present his "Soil Magic" show (from ASCE publications) as well as the Distinguished Lecture. Teachers will find the magic to be a fascinating way of stimulating interest in geotechnical engineering.

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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. Email subscriptions are free.

News items are invited and should be sent to: Charlie Hammond, OR Section AEG Newsletter Editor, Cornforth Consultants, 10250 SW Greenburg Road, Portland, OR 97223, email: or.aeg.news@cornforthconsultants.com, phone (503) 452-1100. Electronic media is preferred. Deadline for submittal is Friday three weeks before each meeting.

Please notify Charlie if you have a change to your email or mailing address.

### **Members**

**if you have not already paid your dues,  
please do, your association and section  
will appreciate it!**

# PORTLAND STATE UNIVERSITY STUDENT CHAPTER

The student chapter at Portland State has reconvened after a fun-filled summer break. Getting class schedules squared away during the first two weeks meant that we didn't have our first meeting until third week of the term but now we're all pumped up with excitement as we begin to discuss ideas for the future academic year. The most important and immediate improvement we'll make to our weekly meetings is to move our meeting location to the student bar on campus. All our active members are of age, and following the example of the Oregon Section and the national meeting, which was held in a casino, we, too, are venturing to more comfortable surroundings! We expect greater participation and a better flow of ideas!!

Scott Burns led a fieldtrip to the Milepost 35 debris flow adjacent to the Dodsen Flow on a perfect sunny day, and we climbed all over the deposits to look at the levees, tree jams, channel scour and high flow lines. This year we're bringing back our Brown Bag Talk Series, and to start us off right, Mike Marshall, a PSU senior, will be talking about his recent AEG fieldtrip to Yucca Mountain. Also speaking this term are Beth Rapp on the Sandy River Delta stratigraphy, Tom Lindsay on inclusions in meteor-

ites, Eve Llewellyn on the geohydrology of the Klamath Marsh, and Hiram Henry on the aquifer properties of firm in Alaska. Throughout the year, each student member will be encouraged to talk about recent fieldwork and summer work experiences. The graduate student members have also been asked to incorporate some lessons on field techniques and instrumentation. For some fun entertainment next week, we will also gather to watch the short movie, Debris-flow Mechanics produced by Costa and Williams, 1984. The movie captures *live* debris flow events to various thrilling sound tracks. Throughout the term, we'll watch other natural hazard movies too.

In November, a weekend fieldtrip is planned to visit some of the deep-seated landslides along the Coast Highway, and we will stop for refreshment at a microbrewery in Newport.

Six months remain until our Second Annual Student Night where we will host the April meeting of the Oregon Section. A call for papers is going out to a dozen other universities in Oregon and Washington, and we anticipate an even bigger turnout than last year!! We visited the December 2001 debris flow along I-84 at Milepost 35.

*Julie Griswold*  
*Student Chapter President*



Left to right:  
Kenny Janssen,  
Scott Burns,  
Tim Youngberg,  
Charlotte Marshall,  
Cory Raspone,  
and Tony Ordway.  
Also on the trip, Julie Griswold.  
10/17/2002

## SHORT NEWS ITEMS

**Membership Information:** If your membership information has changed, please take the time to update through the AEG Website or by contacting our Chief Staff Executive Becky Roland at (303) 757-2926 x307

**Green Briefcases:** We still have a few green canvas briefcases left over from the Seattle annual meeting. You can have one for \$5.00. Contact our Chair and we will bring one to the next meeting!

**Oregon Section Book:** The 1998

publication "Environmental, Groundwater And Engineering Geology Applications from Oregon" Edited by Scott Burns, with articles by many Oregon Section members, is available from Nature of the Northwest (DOGAMI Book Store at 800 NE Oregon St.), Powell's Book Store, Portland State Book Store (corner 5<sup>th</sup> and Mill), and Amazon.com.

**"Seeking Old AEG Annual Directories":** If anybody has any pre-1997 AEG annual directories,

please email George Freitag, History Chair at gfreitag@gri.com. George is compiling our sections history. His mailing address is: GRI Inc., 9725 SW Beaverton-Hillsdale Hwy, Beaverton, OR 97005

**Receive Your Newsletter by E-Mail:** PLEASE TAKE THE TIME TO SWITCH TO THE E-MAIL NEWSLETTER. This saves the Section money and simplifies the editor's job. Please send your e-mail address to or.aeg.news@cornforth-consultants.com

# CALENDAR

**December 17:** Scott Burns, AEG Presidential Talk

**January 21:** ASCE Geotech Joint Meeting, tentatively Sue Bednarz, Parsons Brinckerhoff, Denali Land-

slide

**February 19:** Jon Hofmeister, DOGAMI, Landslide Modeling/Debris Flow Mapping

**March 18:** Willie Scott, USGS

CVO, Three Sisters Bulge Data

**April 15:** Student Night

**May 20:** Jon Allan, DOGAMI-Newport Office, Coastal Geomorphology Research.

## MEMBERSHIP & LOCAL SUBSCRIPTIONS

Application forms for Membership in AEG can be obtained from Tim Blackwood, Membership Chair. 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 supports our newsletter costs, and, in part, the dinner costs for student members.

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 or e-mail to Charlie Hammond, Oregon AEG Newsletter Editor. Note: this is only for people and organizations that wish to subscribe to our Newsletter without being members of AEG. Email subscriptions are free.

Copy this page and mail the subscription form with a \$10.00 check, payable to "Oregon Section AEG," to Charlie Hammond, Oregon Section AEG Newsletter Editor, Cornforth Consultants, Inc., 10250 SW Greenburg Road, Suite 111, Portland, OR 97223

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**Treasurer:** Brent Black, Cornforth Consultants, Inc., (503) 452-1100, or. bblack@cornforth-consultants.com



**Past Chair:** Andrew Harvey, (503) 645-9842, afharvey1949@hotmail.com

### PSU Student Chapter

**President:** Julie Griswold, griswold@pdx.edu

### Program Chairs: Jason

**Hinkle**, Oregon Department of Forestry, (503) 945-7468, jhinkle@odf.state.or.us



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**Legislature Chair:** position available