



The Official

OREGON SECTION AEG NEWSLETTER

<http://www.aegoregon.org>

January Meeting Details

Wednesday January 4th

Location: Crowne Plaza Hotel

14811 Kruse Oaks Dr.

Lake Oswego, OR

6:00 pm Social

7:00 pm Dinner

8:00 pm Presentation

Dinner: Chicken or Veggie

\$35 Dinner (Students are Free)

Reservations:

mdodgson@gri.com

with "ASCE Reservation" in
the subject line by Noon
Tues. Jan 3

Those who do not reserve by
the deadline may not receive
a meal.

Upcoming Meetings:

Feb 21st Bill Burns
Mar 20th Tom Pierson
Apr 17th Jennifer Bauer
May 15th Student Poster Night



January is the AEG/ASCE Joint Meeting Engineering Geology of the Simpson Creek Curves Realignment, US 20, Lincoln County, Oregon

Guest Speakers: George Freitag and Michael Zimmerman

US 20, a major link between Corvallis and Newport, Oregon, is built through landslide-prone Coast Range geology. ODOT contracted GRI to provide engineering geology, geotechnical engineering, retaining wall design, and construction services to straighten, widen, or repair landslide-affected sections of US 20 in Lincoln County. Preliminary design included eight new retaining walls, new soil and rock cut slopes up to 250 ft high, and the new Simpson Creek Bridge. Retaining structures included a new 460-ft-long, 15-ft-tall soil-nail wall, and a 300-ft-long, tied-back soldier pile wall to stabilize another landslide. ODOT and GRI provided construction services through completion in 2011 and all elements are performing as designed. The presentation will focus on engineering geology aspects of project investigation, design, and construction.



View north along US 20 showing Tyee Formation sandstone and siltstone exposed in new cutslope adjacent Simpson Creek Bridge.

Bio: George Freitag, CEG

George is an Associate with GRI. He has practiced in the Pacific Northwest for over 20 years and has been involved with a wide variety of public and private transportation projects. George has BS and MS degrees in Geology from California State University Northridge.

Bio: Michael Zimmerman, PE, GE, CEG

Michael is a Senior Engineer/Geologist with GRI. He has practiced at GRI since 1997, working on a numerous engineering projects faced with unfavorable geologic conditions. He is a past chair of the Oregon AEG section. Michael has BS and MS degrees in Geological Engineering from the University of Missouri-Rolla and Michigan Technological University, respectively.



Message from the Chair

The December meeting with a presentation from Dr. Scott Burns was a huge success as demonstrated by the number of people who were in attendance. I would like to thank Scott for taking time out of his schedule to present at our meeting. This was by far the largest meeting we have had this season, and just goes to prove this guy is truly a Rock Star!

A planning meeting was held to discuss hosting the 2018 IAEG Meeting in Portland. A punch list of items to incorporate into a mini-proposal was identified, and we plan on proceeding with preparing a submittal to AEG, which is due this February. Ten members have expressed an interest so far, but all who would like to contribute are welcome to join.

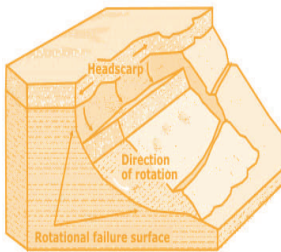
Our January event will be the annual joint meeting with ASCE on the 4th. I look forward to seeing all of you then.

I look forward to seeing you at the January meeting.

Sincerely,

Kevin Schleh, R.G., C.E.G.

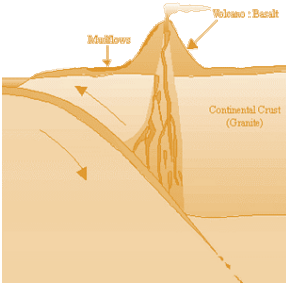
AEG Oregon Section Chair



AEG Foundation Student Scholarships

Students, Professionals, Professors! Please spread the word - the AEG Foundation (AEGF) Scholarship Application has been posted on the AEG Foundation website (www.aegfoundation.org). The new application is online-only - no need to send in separate paper applications or transcripts anymore! You can apply for the Beardsley-Kuper, Marliave, Mathewson, Stout, and Tilford Scholarships in one convenient location. Applicants generally need to write an essay, submit transcripts, and request two letters of recommendation. The deadline for all AEGF scholarships is February 1! Please contact Serin Duplantis (serin.duplantis@gmail.com) if you have any questions.





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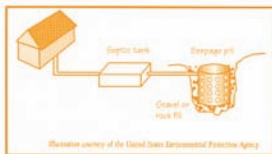
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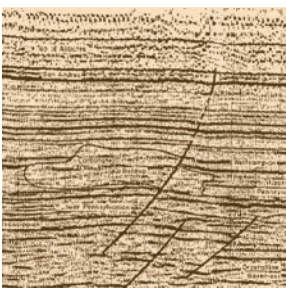


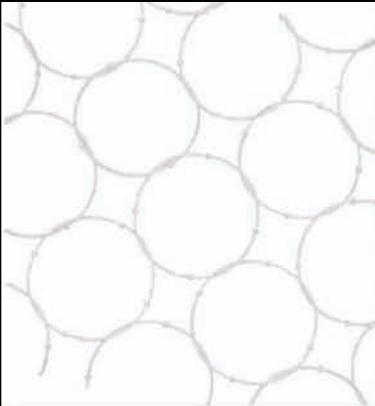
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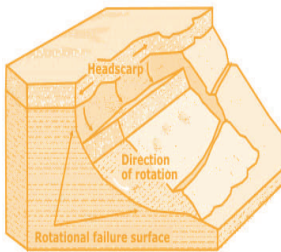


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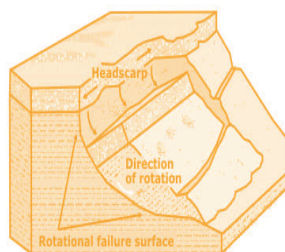
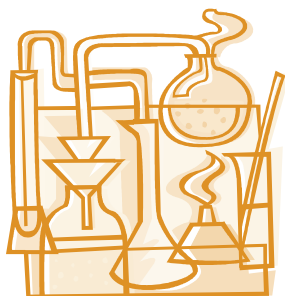
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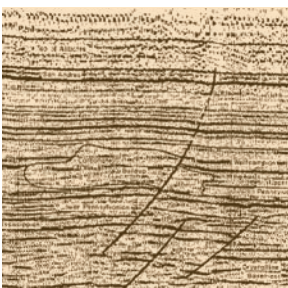
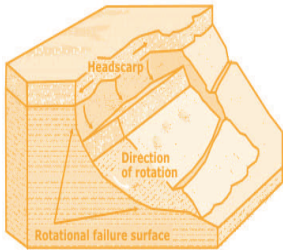
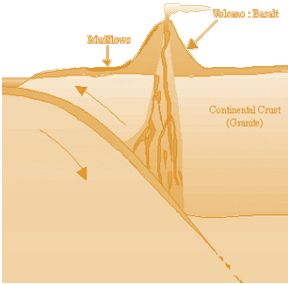
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*"Keen observation is at
least as necessary as
penetrating analysis"*

Karl Terzaghi

AEG-AWG Olympic Peninsula Field Trip Whitney Chase, Portland State Geology Student

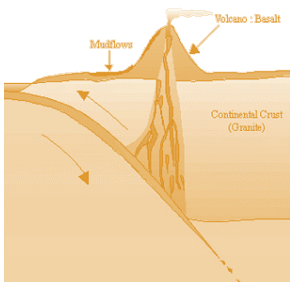
During the second weekend of September 2011, I had the privilege of being the only undergraduate or Oregonian to join a group of Washington professionals on a field trip to the Olympic Peninsula, led by Tom Badger and Wendy Gerstel.

Friday (9/9) we began at Dowan's Creek and Undi Road Landslides, observing the migration into the slope of tension cracks and ridges. We next observed several large deep-seated landslides along the Bogachiel River in Forks, WA, where thrusting and under-plating caused the vertical rock of the area exposed in the landslide. The Bogachiel River, a homogenous and meandering river, north of the Hoh River Valley has repositioned its river channel over time due to ongoing triggering from various alignments of movements of the toe and sediment movement. The landslides along the river were noticeable by the effects of vegetation removed and a more permeable soil top. It was interesting to learn about the groundwater levels measured by piezometers and how precipitation was originally thought to be the cause of the landslides in the area. In fact, the landslides are caused by the movement of the bedrock, and are not influenced by water. Inclinator data probes measure the movement of each landslide. The whole group discussed possible ways of improving slope stability in the area. That night there was an interpretative talk at the Kalaloch Campground by Glenn Thackray and Tim Walsh on glacial geology and earthquake hazards of the area around Kalaloch.

Saturday (9/10), we hiked 3 miles along the Kalaloch beach of WA in order to observe the Pleistocene strata of the Central Olympic Coast. The beach deposits of the area are supposed to date back to the last interglacial period. Tom and Wendy pointed out that the bedrock sections are dominated by silt and peat beds accumulated through the Wisconsin glaciation. Next we drove to the Hoh River Valley near a couple beach trails, coming across an unusual amount of convoluted gravel. Visually, we took note of the Kalaloch syncline that is near nearby Beach Trail. Right away, I pinpointed an angular unconformity and had the opportunity to discuss the stratigraphic framework and deposits with a handful of professionals.

Sunday (9/11), we took half a day to look at river processes, large woody debris, fish passage, and debris flow mitigation on forest roads. It was a quick half-day wrap up that focused on the slide material, the stability of the area and the generic sense of all the combining factors of the forest road's history or problems.

Overall, it was a great and beneficial experience and I was very privileged to be a part of such a great educational field trip.



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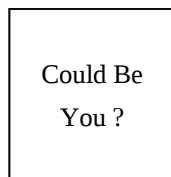
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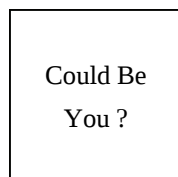
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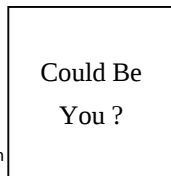
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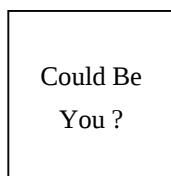
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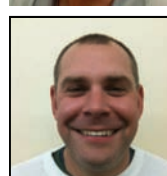
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The Oregon Section Newsletter

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