



The Official

# OREGON SECTION AEG NEWSLETTER

## October Meeting Details

Date: Tuesday, October 17  
 Location: Old Market Pub  
 6959 SW Multnomah  
 Portland, OR 97223

6:00 pm Social  
 7:00 pm Dinner

8:00 pm Presentation

Dinner: Pizza and Salad

\$14 Dinner (\$7 Students)

**Reservations:**  
 mwegner@cornforthconsultants.com  
 with "AEG Reservation" in  
 the subject line or 971-222-  
 2047 by 4pm Thursday Octo-  
 ber 12th.

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

- ### Upcoming Meetings:
- November 14th, Paul Trone and Craig Ware: Methane and impacts with the environment
  - December 19, Brent Black: Rockfall Hazard Mitigation



## October Meetings Guest Speaker is Tom Archer from PBS Engineering & Environmental

### Presentation: The LEED Green Building Rating System™ - Can Your Firm Contribute? An overview of the LEED rating system and its' relation to environmental design and cleanup projects

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the most widely recognized standard for the design, construction, and operation of green buildings. LEED promotes an integrated approach to the design of buildings measuring performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

The LEED standard for new construction (LEED NC) is the rating system used for new construction projects. To earn LEED certification, a building project must meet certain prerequisites and performance benchmarks ("credits") within each category. Projects are awarded Certified, Silver, Gold, or Platinum certification depending on the number of credits they achieve.

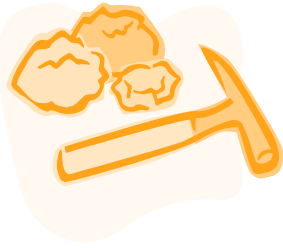
Three of the LEED credit areas, *Sustainable Sites*, *Water Efficiency*, and *Materials and Resources* have the most relevance to the disciplines of engineering and geology as they relate to project design. Firms involved in the areas of brownfields remediation, wastewater treatment, waste minimization and other related issues have the potential to be involved in the LEED design and certification process. These credit areas will be explored in some detail, with an overview of the LEED requirements and required documentation.



Installation of reused roof trusses during construction



Finished Interior



## Bio: Tom Archer

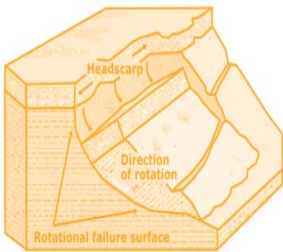
Tom serves as a Senior Project Manager and Director of Sustainable Design Services for PBS Engineering & Environmental. Tom has 15 years of experience in the consulting and commercial real estate industries, currently working as a Senior Project/Client Manager on PBS' multi-discipline projects.

Tom has a broad range of experience including development of due diligence programs for regional lending institutions, to project planning and permitting to construction program management and commercial real estate development.

Tom currently serves as the owner's representative and project manager for the First Unitarian Church Education and Community Center, currently under construction in downtown Portland. When completed in June 2007, the building is expected to be the first LEED Gold certified faith-based facility in the US.



Tom Archer – Director, Sustainable Design Services, PBS Engineering & Environmental



## Message From The Chair

The September meeting was a great start to this year's events. I would like to thank Cindy Hovind for presenting a field trip to Nepal. The scale of things, such as river terraces hundreds of feet up the side of a valley, was quite impressive. The new Lucky Lab in northwest Portland continues the AEG Oregon Section tradition

of casual dining and a relaxed atmosphere. I am sure we will return. Thanks to everyone who attended the meeting.

If you have ideas for field trips or activities for the AEG Oregon Section, please let one of the board members know. Members of the PSU student chapter of AEG have requested the opportunity to shadow a

professional for a day. Additionally, the possibility of a short course or seminar has been suggested for autumn of 2007. I look forward to hearing your ideas. It is time to start planning.

See you at the October meeting,  
Michael Zimmerman, AEG Oregon Section Chair

## Book Reviews: The Orphan Tsunami of 1700

"The mastery of this book lies in its combining history from the northwest side of the Pacific Ocean with geologic studies on the northeast side.... The clarity of the visuals is striking.... This book offers a readable, detailed look at what happens on both sides of the Pacific Ocean when large subduction zone earthquakes occur. Knowing that they do happen, we can now take steps to reduce deaths and damage." --

Kathleen Sayce [http://www.tidepool.org/original\\_content.cfm?articleid=184844](http://www.tidepool.org/original_content.cfm?articleid=184844)

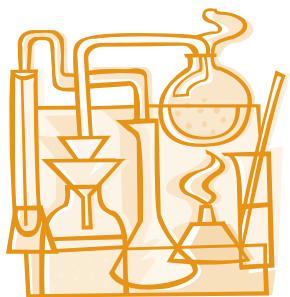
"... we can live in tranquil ignorance no longer.... We're all too familiar with the horrifying effects of big earthquakes--the Southeast Asian tsunami and the recent earthquake in Pakistan. But what would happen if a similar sized quake struck again in Cascadia? And what

lessons can we learn from the history of the Northwest before it was inhabited by Europeans?" Eric de Place <http://cascadiascorcard.typepad.com/blog/alaska/in->



*“Keen observation is at  
least as necessary as  
penetrating analysis”*

*Karl Terzaghi*



## 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 Association of Engineering Geologists (AEG) contributes to its members' professional success and the public welfare by providing leadership, advocacy, and applied research in environmental and engineering geology. AEG's values are based on the belief that its members have a responsibility to assume stewardship over their fields of expertise. AEG is the acknowledged international leader in environmental and engineering geology, and is greatly respected for its stewardship of the profession.

**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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## Section Officers & Committee Chairs



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mzimmerman@gri.com



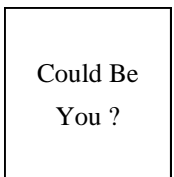
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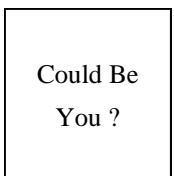
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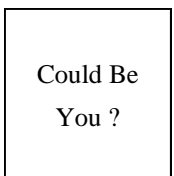
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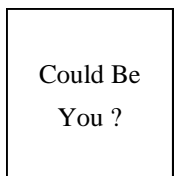
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### Photo of the Month

The October photo is from Julie Griswold from the USGS Cascades Volcano Observatory (CVO). The photo is of a debris flow created at the USGS Debris Flow Flume at the H.J. Andrews Experimental Forest in central Oregon. This September, a study in the mechanics of entrainment was performed at the flume. Sediment was laid along the length of the 31-degree sloping flume and saturated. Then, a small debris flow was released from the head of the flume, and various buried sensors recorded the arrival time of the front waves and the subsequent erosion of the additional material along the bed of the flume. Down at the run out area, a crowd of Oregon State University students get a short lecture and examine the deposits. Check out the high flow splatter marks along the side of the concrete walls of the flume!

For more information visit <http://vulcan.wr.usgs.gov/>

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