



**The Official**

# OREGON SECTION AEG NEWSLETTER

November Meeting Details
<b>Date:</b> Tuesday November 17
<b>Location:</b> Old Market Pub
<b>6959 SW Multnomah</b>
<b>Portland, OR</b>
<b>6:00 pm Social</b>
<b>7:00 pm Dinner</b>
<b>8:00 pm Presentation</b>
<b>Dinner: Salad and Pizza</b>
<b>\$15 Dinner (\$5 Students)</b>

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

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

## Upcoming Meetings:

Dec. 15—Duane Kreger  
Jan. 19—TBA joint ASCE  
Feb. 16—Ralph Soule  
Mar. 17—TBA  
Apr. 20—Student Night  
May 18—TBA



## The November Meetings Guest Speaker is Tim Shevlin—To Pin them or to Catch them: Two Solutions for Shallow Landslides

Two new solutions for solving shallow landslide problems include pinning them with Geobrugg's anchored TECCO® system or catching them with their brand new Shallow Landslide Barrier. Both systems are high-tensile strength, light-weight, flexible systems for mitigating shallow landslide hazards. These two solutions are cost-effective and efficient alternatives to large earthwork operations required for laying back steep slopes and rigid shotcrete applications.

The anchored TECCO® System uses the flexible, diamond shaped TECCO® mesh manufactured from high-tensile strength, highly corrosion-resistant wire. Geobrugg's Ruvolum dimensioning model aids in the engineering design of the TECCO® System. The high-tensile strength with a specialized spike plate optimizes force transfer from mesh to a pattern of anchors. These system components allow the mesh to be pretensioned against the slope limiting deformations and shallow slides at critical surface sections. The mesh flexibility is integral to the system in that it allows the mesh to conform to irregular slopes. The open mesh allows the slope to remain free draining and allows revegetation of the slope. Numerous pinned (anchored) TECCO® system have been installed in soil and rock slopes across the world as an effective solutions to solving shallow slope failures.

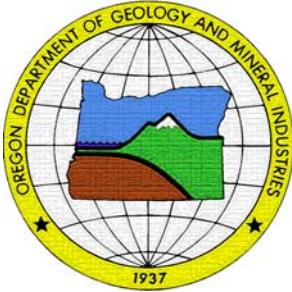
Geobrugg's Shallow Landslide Barrier has been tested in four full-scale, 1:1 shallow landslide experiments at test sites in Switzerland. At these sites artificial and induced shallow landslides have been successfully retained. Proto-type barriers are set up at the end of the acceleration zone to study the impact and filling loads and the interaction between the filling material and flexible barriers. The data collected during these tests is being used to refine the Shallow Landslide Barrier design in order to optimize the force transmission and stopping of shallow landslide loads.

## Speaker Bio: Tim Shevlin, PG

Tim Shevlin is an Engineering Geologist with more than 8 years experience performing geotechnical and geologic investigations. Mr. Shevlin has a Bachelor of Science in Environmental Science from Allegheny College and a Master of Science in Geology from Kent State University. He is also a licensed Professional Geologist in the State of Pennsylvania.

Prior to joining the Geobrugg team, Tim worked on both public and private sector projects for nationally-known engineering consulting firms performing geotechnical investigations and designs. He has experience working on commercial development projects, flood control projects, water tanks, dams, parks and recreation facilities, mine subsidence evaluations, groundwater contamination studies, levees, transit/railroad projects, and transportation projects. His design experience includes shallow and deep foundation design; slope stability analysis; retaining wall, MSE wall, and soil nail wall designs.

Tim is Geobrugg's Regional Manager for North West USA & Western Canada. He works out of the Salem, Oregon area.



## DOGAMI Publication Alert & Oregon Geology, v.69, 1

The Oregon Department of Geology and Mineral Industries has an email list which will notify members through announcements concerning DOGAMI publications. For more information go to the following website:

<http://listserv.osl.state.or.us/mailman/listinfo/dogami-pubs>

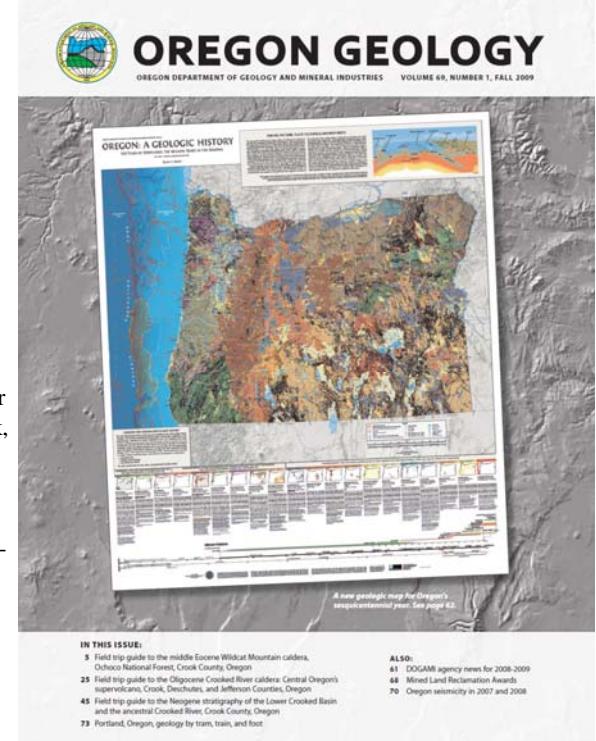
Portland, Oregon: The recently discovered “Supervolcano” near Prineville and Portland’s amazing geologic history are featured in the new 96-page issue of Oregon Geology Magazine, published by the Oregon Department of Geology and Mineral Industries. You can download a free copy of Oregon Geology and the 4 field trip guides at: <http://www.OregonGeology.org>

Field trip guide to the Oligocene Crooked River caldera: Central Oregon’s Supervolcano, Crook, Deschutes, and Jefferson Counties, Oregon, by Jason D. McClaughry, Mark L. Ferns, Caroline L. Gordon, and Karyn A. Patridge, visits three of central Oregon’s state parks—Prineville Reservoir, Smith Rock, and Peter Skene Ogden Wayside—where key features of one of the largest explosive volcanic eruptions in the earth’s history are prominently exposed.

Field trip guide to the middle Eocene Wildcat Mountain Caldera, Ochoco National Forest,

Crook County, Oregon, by Jason D. McClaughry, Caroline L. Gordon, and Mark L. Ferns, will take you into the heart of the beautiful Ochoco Mountains to see the remnants of an ancient volcano, the 350 foot tall Steins Pillar, and sites where you can hunt for thundereggs. A third field trip guide into central Oregon—Field trip guide to the Neogene stratigraphy of the Lower Crooked Basin and the ancestral Crooked River, Crook County, Oregon, by Jason D. McClaughry, Mark L. Ferns, and Caroline L. Gordon — travels along the wild and scenic Crooked River near Prineville, between Ochoco Wayside State Park and Bowman Dam, to explore the development of the ancestral Crooked River.

Portland, Oregon geology by tram, train, and foot, by Ian P. Madin, provides a fun introduction to the amazing geology of the Portland area. Five field trip stops, all accessible by public transportation, take you to see evidence of monumental lava flows, ancient volcanoes and the largest floods in the earth’s history.



### Message From The Chair

This last month has been busy time for the Oregon Section. Geological Society of America 2009 Annual Meeting was held in Portland this year. Attendance reached about 6,000. I would like to thank the many AEG members who chaired sessions, organized field trips, or presented papers this year at GSA this year to show AEG presence at GSA. Oregon Section held our monthly section meeting during GSA week.

Title “Modeling to Monitoring: Streambed Scour at Bridges in Alaska” presented by Jeff Conway, hydrologist with the USGS. The meeting was very well attended to overflowing. We were fortunate to have so many out of state visitors including three former past AEG presidents (Drs. Terry West, Mark Molinari, and Darrel Schmitz), three distinguish professors from Colorado School of Mines (Jerry Hig-

gens, Paul Santi, and Keith Turner) and Dr. Darrel and Donna Schmitz with a large group of students from Mississippi State. I like to thank all of you who came to our monthly meeting demonstrating the commitment and activity of our Section.

Oregon Section AEG Chair  
Dave Schofield

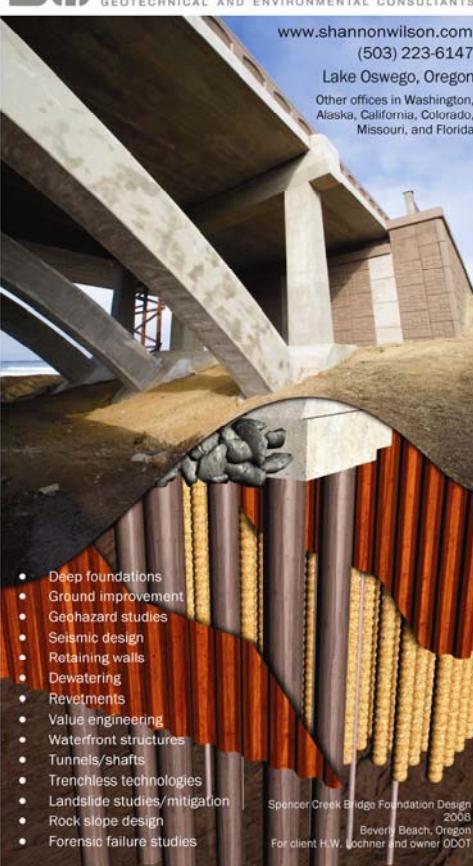
*"Keen observation is at least as necessary as penetrating analysis"*

*Karl Terzaghi*



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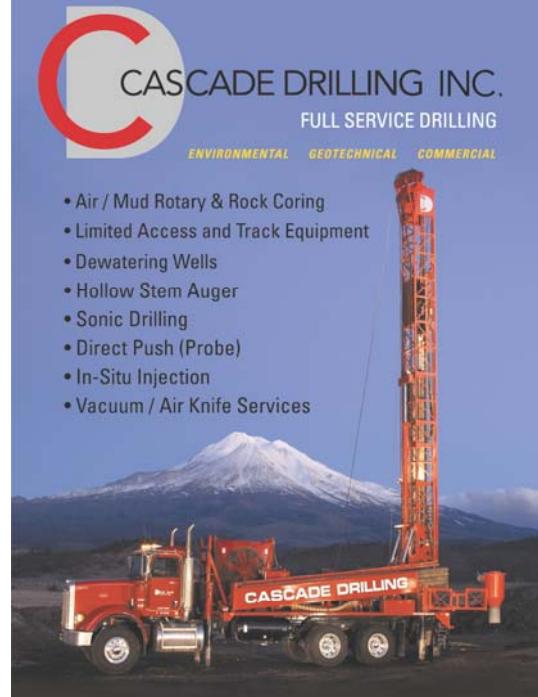
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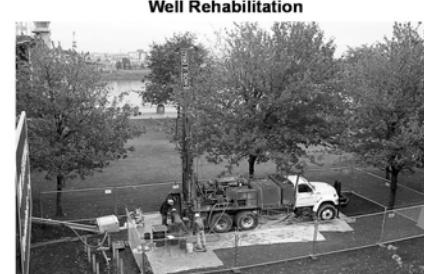
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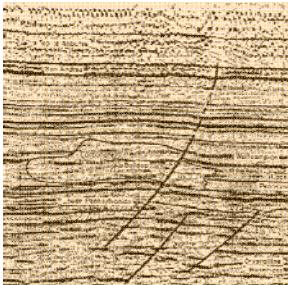
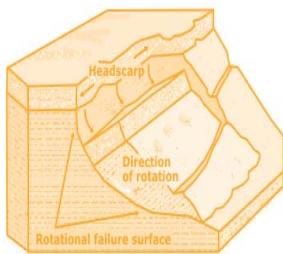
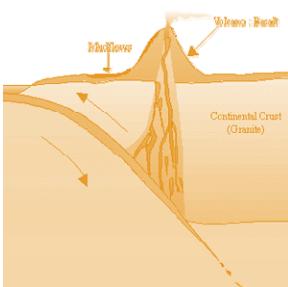
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This image is the second page of a brochure for GeoPotential. It features a stylized logo of a topographic contour map in the top left. The top right contains the company's contact information. The main title 'SUBSURFACE MAPPING SURVEYS' is centered in large, bold, underlined letters. Below the title, five survey service categories are listed with corresponding icons: 'GROUND PENETRATING RADAR SURVEYS' (radar truck), 'MAGNETOMETER & ELECTROMAGNETIC SURVEYS' (magnetometer), 'GRAVITY SURVEYS' (gravimeter), and 'RESISTIVITY SURVEYS' (resistivity meter). A central photograph shows a white mobile laboratory van parked in a field. To the right, a detailed description of the services is provided, including 'PROJECTS: GEOLOGIC ENGINEERING, ENVIRONMENTAL OIL & MINERAL EXPLORATION ARCHAEOLOGICAL' and 'LOCATE: VOIDS, UTILITIES STORAGE & SEPTIC TANKS FOUNDATIONS, DRAIN FIELDS WATER WELLS MONITORING WELLS'. At the bottom, a resistivity survey profile is shown with depth markers and a color scale for resistivity values.

## Section Officers & Committee Chairs



Chair:  
Dave Scofield  
ACOE  
scofield@onemain.com



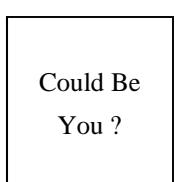
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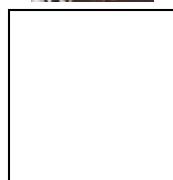


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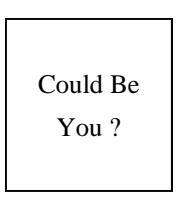
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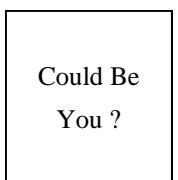


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**The Oregon Section is also on the web at <http://www.aegoregon.org>  
National AEG webpage: <http://aegweb.org>**

## 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 \$100/yr; 1/4 page \$200/yr; 1/2 page \$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.

