



The Official

# OREGON SECTION AEG NEWSLETTER

## October Meeting Details

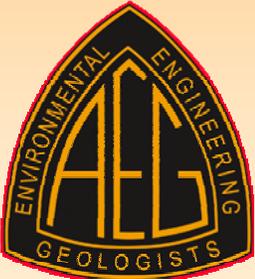
**Date:** Tuesday, October 21  
**Location:** Old Market Pub  
**6959 SW Multnomah  
 Portland, OR**  
**6:00 pm Social**  
**7:00 pm Dinner**  
**8:00 pm Presentation**  
**Dinner: Pizza & Salad**  
**\$14 Dinner (\$7 Students)**

**Reservations:**  
 mwegner@cornforthconsultants.com  
 with "AEG Reservation" in  
 the subject line or 971-222-  
 2047 by 4pm Thursday Octo-  
 ber 16th.

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

## Upcoming Meetings:

- **November: Gunnar Schlieder, Landslides**
- **December: TBA**
- **January: Yumei Wang, Multi-Hazards**



## The October Meeting Guest Speaker is Dennis Nelson from GSI Water Solutions, Inc. Presentation: Protecting Public Water Supplies

Communities often find themselves in a position that requires local government officials to make land use practices decisions with little or no data with respect to how such a decision might impact their water supplies. The 1986 Amendments to the Safe Drinking Water Act marked a significant change in focus with respect to drinking water sources from that of reaction and treatment to pro-action and preventive strategies. The EPA introduced the Wellhead Protection Program which directed states to develop guidance with respect to providing public water systems with the information they would need to help them develop and implement drinking water protection strategies. The elements of the guidance were 1) the delineation of the wellhead protection area (that area that overlies the portion of the aquifer that supplies groundwater to the well or spring); 2) an inventory of potential contaminant sources within the WHPA; and 3) determination of the susceptibility of the water supply to those potential sources.

The Oregon DEQ and DHS Drinking Water Programs teamed

with a citizen's advisory committee to develop such guidance. Although the guidance was well intentioned, it became obvious to states and the EPA that very few public water systems could afford to collect the data on their own. As a result, the 1996 Amendments to the SDWA established the Source Water Assessment Program, addressing both groundwater and surface water, and directing the states to provide the basic information needed. The effort was funded out of the Drinking Water State Revolving Loan Funds. The DEQ and DHS continued their cooperative effort, addressing the assessments of surface water and groundwater sources, respectively.

By mid-2005 when the program was "completed", over 2300 public water systems in Oregon had received individual Source Water Assessment Reports that addressed their systems. Source water areas for surface water systems were based on watershed boundaries while for groundwater systems, models reflecting water use and local aquifer conditions were used. These models varied from simple volume calcu-

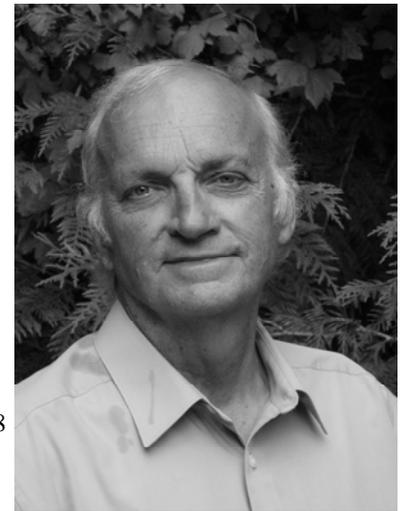
lations to more sophisticated analytical and numerical methods. The susceptibility to potential contaminant sources included watershed characteristics of proximity to surface water, nature of the soil and runoff conditions. Aquifer sensitivity was evaluated based on factors including depth to water, permeability of soils and recharge amounts. Also evaluated was the construction of the individual wells.

Both agencies are now focused on providing technical assistance to water systems to help them use the assessment data to design protection measures. Incorporating these efforts into the land use planning process is particularly desirable in order to plan for economic and population growth that is compatible with the resource. To facilitate this effort, DEQ and DHS are working with local planning authorities to develop and implement these strategies.

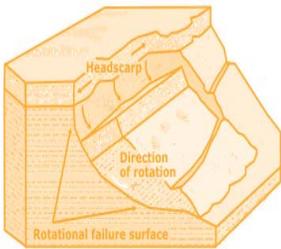


## Bio: Dennis Nelson

Dennis Nelson has a B.S. in geology from Portland State University and a PhD in geology/geochemistry from Oregon State University. He served on the faculty of the Earth Sciences Department at PSU from 1976 to 1979 and a faculty member and Department Chair at Sul Ross University in west Texas from 1979 to 1988; research efforts were directed toward trace element geochemistry of the Trans-Pecos Magmatic Province in west Texas evaluating origins and evolution of the province. Dennis also worked as a Senior NSF Research Associate at the Planetary Sciences Division at Johnson Space Center from 1988 to 1990; research was directed toward the evolution of Archean crust in Ontario, Canada. He held the position of Groundwater Coordinator at the Oregon Dept of Human Services Drinking Water Program from 1990 to 2008; focus was on technical assistance to public water systems using groundwater. He recently retired from state service 10/1/08 and is currently Senior Hydrogeologist with GSI Water Solutions, Inc.



## PSU Fall Classes

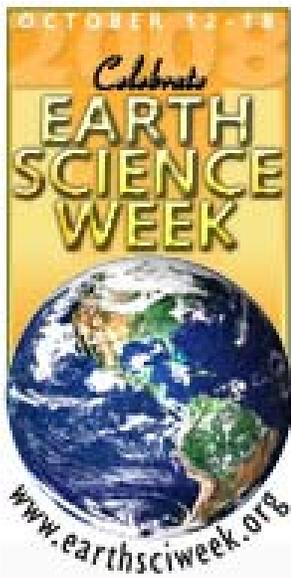


- G510, Web GIS, 2 credits, M, 14:00-15:00, Tu 14:00-16:00, Cramer 1, Dave Percy
- G510, GIS Programming, 2 credits, Th, 12:30-13:30, F, 12:30-14:30, Cramer 1, Dave Percy
- G560, Soil Geomorphology, 4 Credits, MW 16:40-18:30, F; 15:00-17:00, Cramer 69, Scott Burns
- CE546, Numerical Methods in Soils and Structures, 4 credits, TuTh 16:00-19:50, Trevor Smith
- CE569, Groundwater Hydrology, , 4 credits, TuTh, 14:00-15:50, G. Johnson
- CE579, Fate and Transport of Toxics in the Environment, 4 credits, MW, 16:00-17:50, Bill Fish
- CE 580, Chemistry of Environmental Toxins, 4 credits, TuTh, 10:00-11:50, G. Johnson
- Geog514, Hydrology, 4 credits, TuTh, 10:00-11:50, H. Chang
- Geog 588, Intro to GIS, 4 credits, T, 17:30-21:10 and a lab, K. martin
- Geog 593, Digital Terrain Analysis, 4 credits, TuTh, 12:00-14:00, J. Duh

## Planning Meeting for AEG Oregon Section Participation in the Upcoming 2009 GSA, Portland, Oregon

You are encouraged to attend the first planning meeting for the 2009 GSA which will be held in Portland ! The first planning meeting will be held directly before the AEG dinner meeting on October 21st. The planning meeting will be led by Bill Burns and Jason Hinkle in Old Market Pub from 5:30 pm to 6 pm (immediately before the regular AEG meeting). Having the GSA in Oregon is a great opportunity for us to show off our dynamic state. Some of the topics we will discuss include future planning meetings, field trips, student involvement, and technical sessions. NO RSVP is needed. Just show up!





## Oregon's Earth Science Week 2008 Kick Off

**What:** Earth Science Week Meeting. If you plan to participate in ESW 2008 (October 12-18), this is the only meeting you need to attend.

Come to pick up your ESW packet and discuss ideas for ESW presentations, including visual aids. If possible, decide on your school(s) or speaking venues before this meeting.

**Who:** ESW Volunteers (those of you who signed up, want to volunteers, and potential volunteers)

**Where:** Old Market Pub, 6959 Multnomah, Portland, OR

**When:** Meet at 5:30 pm before AEG Dinner meeting

**Description:** Oregon geologists

are planning the third annual Kick-Off to celebrate Earth Science Week for this October 12-18. The Oregon Department of Geology and Mineral Industries, the Association of Engineering Geologists Oregon Section, and others will co-host Earth Science Week (ESW) education activities to occur on the second week in October every year.

Volunteers will receive an Earth Science Week Information Kit(s) at the meeting on October 21st and will share the kit and their first-hand geology knowledge in a classroom(s) of their choice. Each are encouraged to locate a classroom (e.g., your child's or neighbor's child's class) or community organization (e.g., Ro-

tary, neighborhood organization, etc.) to speak to or DOGAMI and AEG can assist by providing contacts.

The Kits will be supplied by the American Geological Institute (AGI). For more info, check out [www.earthsciweek.org](http://www.earthsciweek.org)

If you have questions, please contact Drew Harvey (503-417-7693; [andrew\\_harvey@pbsenv.com](mailto:andrew_harvey@pbsenv.com)) or Bill Burns (971-673-1538; [bill.burns@dogami.state.or.us](mailto:bill.burns@dogami.state.or.us))



## Message From The Chair

Welcome back from a long summer break. If your summer was like mine, there was a break in AEG, but not much else. There seems to be no shortage in demand for geologic services. There also seems to be no shortage in news to share here.

Election results are in! Welcome to Kevin Schleh, our new Section Treasurer and the latest addition to our Section Board. And thanks to all the Section Officers and Committee Chairs who will continue to serve our Section. Our Section would not be what it is without these volunteers! See the back page for a list of these folks. Note that we have some current vacancies

and that we will also start looking for our next Treasurer in the spring. If you have an interest in serving as a Section Officer or Committee Chair, please let me know.

And big thanks to Michael Zimmerman, now off the board after five years of service, but still involved with the Section. Michael has volunteered to help us re-evaluate how we run the Board. Our main objective will be to make it easier for our Board to operate efficiently and effectively given that our Board consists of a constantly changing group of volunteers.

The Oregon Section was well represented at the National Meeting last month with ten

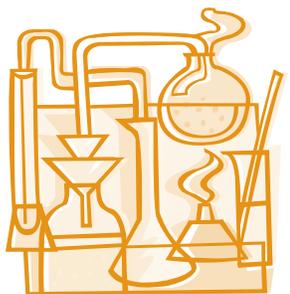
members participating. A number of those gave presentations, moderated technical sessions, and participated in the National Board of Directors Meeting. Our members won a number of awards as well (see below). I would like to personally congratulate our own Dorian Kuper, who completed her term as President of AEG at the meeting. She has done an outstanding job and her strong connection to the national organization is a benefit to our local section.

(continued on next page)



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

*Karl Terzaghi*



## Message From The Chair (continued)

Every year, AEG has their Board of Directors Meeting directly after the National Meeting. I represented our Section on the Board of Directors and was accompanied by Matt Brunengo. To summarize from the meeting:

- There is a national dialogue occurring on the issues of education, accreditation, licensure, and how they all relate to the professional practice of geology. AEG is taking a strong stance that all of these items are important and need to be aligned.
- AEG is going to continue to work on improving the AEG website.
- The national organization is doing well in terms of membership and finances.
- Our section, as well as our Student Chapter at Portland

State, is relatively strong and doing well.

- Other sections struggle with participation outside of core urban areas as ours does.

This month we have Dennis Nelson of GSI Water Solutions, Inc. speaking about assessments he performed for groundwater-based public water systems to evaluate their sources and potential risks. This strikes me as a very timely topic as I have been hearing quite a bit about water systems both on the job and in the news. I think we can expect that water resource management is only going to become more critical in the future. I hope you can join us at the Old Market Brew Pub on the 21<sup>st</sup>. See you there!

Our AEG Section is working to sponsor several field trips and possibly a technical session at the Geological Society of

America 2009 National Meeting to be held in Portland. I invite you to join us before our AEG Section Meeting this month to start the planning process. We sure could use your help.

I would like to take this opportunity to thank Scott Burns who first got me into applied geology and AEG in 1997 when I was a grad student at Portland State. It struck me at the National Meeting that several of the really strong sections each have a professor that serves as a cornerstone for their local organization. Scott is clearly that individual for the Oregon Section. Thanks Scott for all you do to support the Oregon Section and the Student Chapter at Portland State University.

It's an honor and a privilege to serve as the Oregon Section Chair this year. Thank you for your support!

## Job Opportunities

SHN Consulting Engineers & Geologists, Inc. Willits, CA office has an immediate need for a top performing, project-level **Environmental Engineer/Environmental Geologist**. Typical duties include project management, site investigations, feasibility studies, regulatory compliance, development of Phase I and Phase II site assessments, field work including soil and groundwater sampling, drilling activities, groundwater modeling, geospatial analysis, mentoring of staff, client development and marketing, as required. The ideal candidate will have a demonstrated ability to successfully market technical & professional services, strong written and oral communication, organizational, and leadership abilities. Minimum of five (5) years technical and project management experience preferred.

### Education/Registrations/Certifications:

Professional Engineer or Geologist registration (PG)-California preferred; other states considered if able to obtain CA license through comity within 1 year. Bachelor's Degree in Environmental Geology or related degree from an accredited university or college. Working knowledge of the conditions and engineering requirements in the geographic area. Valid Driver's license (CA) by hire date. Must be a U.S. citizen or be authorized to work in the U.S. without sponsorship

SHN is an equal opportunity employer. This position is open until filled. For additional information visit our website [www.shn-engr.com](http://www.shn-engr.com). Please submit a cover letter and resume to Taylor Marie Baker, Human Resources Manager, at [tbaker@shn-engr.com](mailto:tbaker@shn-engr.com)

### Benefits:

SHN Consulting Engineers & Geologists, Inc. offers an excellent compensation and benefits package including medical, dental, vision, insurance; 401(k) plan; AFLAC Section 125 Plan for Dependent Care and Flexible Spending accounts; Life, accident, short and long term disability plans; Flexible work schedules; Learning and development opportunities; Tuition reimbursement; and paid vacations, holidays and sick leave. Relocation reimbursement will be considered.

**Salary:** This position is salaried, commensurate with experience



## AEG Oregon Section Wins Big in New Orleans !

PSU student, Rachel Pirot wins national Stout Scholarship in New Orleans at AEG presented by Tom Kuper



PSU students accept the "Outstanding Student Chapter Award" from AEG president, Dorian Kuper



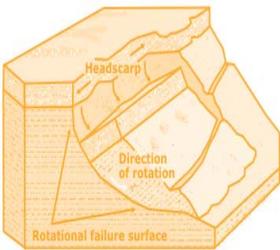
Oregon chapter member, Dorian Kuper, was a star as national president in New Orleans of AEG (she was the fourth Oregon Chapter member to be president of AEG)



Jason Hinkle, Oregon chair for AEG, who got a special award in New Orleans – the first ever National Safety Award from AEG for his work with the debris flow near Clatskanie last December. The award is presented by Dorian Kuper.



Serin Duplanits and Rachel Pirot both got Lemky Student Scholarships.



*“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

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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Oregon Department of Geology  
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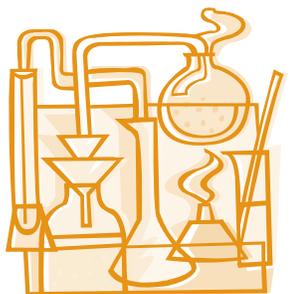
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Fax: 503-692-4759

## Section Officers & Committee Chairs



Chair:  
Jason Hinkle  
ODF  
jhinkle@odf.state.or.us



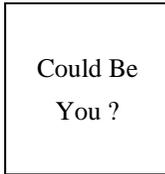
Program Co-Chair:  
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mmarshall@paramatrix.com



Legislature Chair:  
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Chair Elect:  
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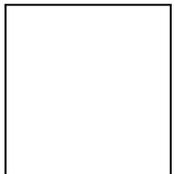
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lglonek@hotmail.com



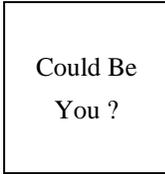
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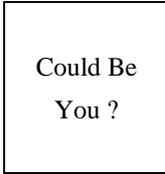
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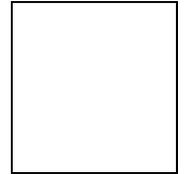
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Past Chair:  
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PSU and WA DNR  
mbrunengo@aol.com

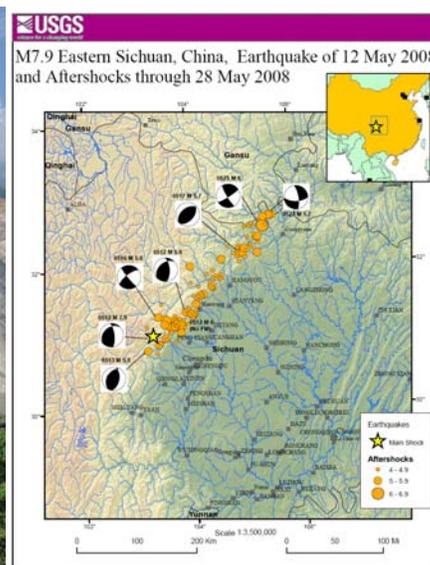


History Chair:  
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???

## Photo of the Month



The October photo is some of the many hundreds of landslides triggered by the magnitude 7.9 earthquake in Eastern Sichuan, China. The area has also experienced many damaging aftershocks.

For more information see <http://earthquake.usgs.gov/eqcenter/eqinthenews/2008/us2008ryan/#summary>

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.