



The Official

OREGON SECTION AEG NEWSLETTER

March Meeting Details

Date: Tues March 18, 2008

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 March 13th.

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

Upcoming Meetings:

- April 15, AEG Student Night
- May 20, John Clague, Jahns Lecture



March Meetings Guest Speaker is John Martin from Cascade Earth Sciences - Presentation: Removal of the Brownsville Dam

The original Brownsville Dam consisted of a wood crib dam constructed in the 1850's to divert water into the town of Brownsville to operate a number of mills. Following a series of washouts and reconstructions of the wood dam, a new dam was constructed in 1964 as a hollow-core concrete dam with downstream and upstream faces joined to a top or cover section. The dam structure was gravel-filled, approximately 110 feet long, north to south, and approximately 14 feet wide, east to west. Height of the dam above the bedrock was up to 8 feet with an additional 5 feet of height added by way of flashboards each sum-

mer for irrigation diversion. As a result of natural deterioration of the dam and its effect on fish habitat (i.e., fish migratory barrier), the Calapooia Watershed Council slated the dam for removal with irrigation restoration via a pump station. CES began the project in March 2007 with dam

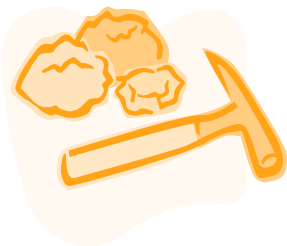
removal in August 2007 and construction of the pump station slated for summer 2008.



Bio: John Martin

John Martin has a B.S. and M.S. degree in geology from Eastern Washington University in Cheney, Washington. He is a registered geologist in Oregon and a Certified Water Rights Examiner in the State of Oregon. He has over 26 years experience as a professional geologist in the fields of industrial minerals, petroleum exploration, environmental geology, and water resource management. He is currently a Principal Geologist and Director of Operations at Cascade Earth Sciences, Ltd., (CES) in Albany, Oregon, where he has been for the over 10 years. At CES, his geologic role includes managing and conducting fieldwork related to reclamation of abandoned mine lands, as well as managing the ongoing Brownsville Dam project.

John's professional activities include serving on the Region 4 Workforce Investment Board of which he is slated to assume the role of chairman in May. John lives in the foothills of the Cascades a few miles from Sweet Home, Oregon with his wife Laurie, where they manage a small farm and orchard.



Message From The Chair

It's March, the temperature has hit 60 a few times, and hope springs eternal. Probably too early to assume that all the bad weather is over, though (spring hopes infernal?) – at this moment, the sun is shining and it's raining, and there's still a whopping snowpack up in the mountains.

Regarding our next meetings, we will convene at the Old Market Pub on Tuesday night, March 18th – details on page 1. In April, Student Poster night will again be at Portland State: Scott Braunsten and the student chapter are busy organizing the presentations (including outreach to other colleges), the fixin's (we are assured there will be beer), and even free parking for those who pre-register.

AEG's national semi-annual board meeting will occur in the Portland area on May 16–18

(Friday afternoon through Sunday morning), hosted by Madame President Dorian Kuper. For those of you interested in the inner work-ings of the association, note that most of the proceedings are open to the membership, as are some of the social activities – so please feel free to attend.

Meetings and more meetings: AEG's national meeting will be held in New Orleans in mid-September; abstracts are due May 1st. In addition, way off on the horizon, the Geological Society of America will hold its annual mega-meeting for the first time in Portland next year, October 18–21, 2009. Thanks to our cousins in the GSA Engineering Geology Division, there are always a plethora of sessions and talks (*how many presentations are there in a plethora, Hefe?*) likely to be of interest to AEG folks. By

the way, much of the program is organized by people like us – if you have an idea for a theme session or a field trip, it's not too early to be thinking about organizing one.

One last plug, for another organization I'm involved with. The Western Snow Conference will be held in Hood River next month, April 15–16, with talks and posters on various aspects of snow hydrology including water resources, climate, runoff forecasting, remote sensing, etc. Early cheap-registration deadline is April 1st; information at www.westernsnowconference.org.

Matt Brunengo

AEG Oregon Section Chair

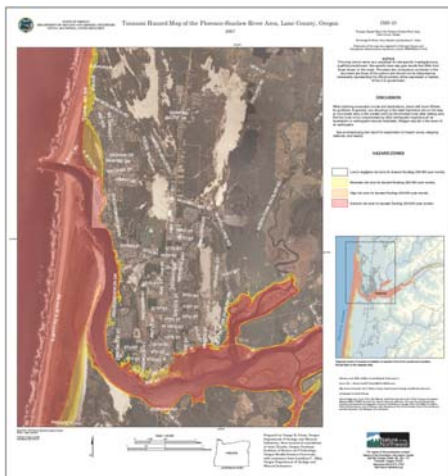


Seattle Fault Field Trip & Mariners Game Update

The AEG Washington Section has invited the Oregon section for a full day of events including a field trip to the Seattle Fault and a Mariners Game.

Save the Date: May 31, 2008, Mariners game at 12:55pm has been confirmed. During the middle of the 4th inning the center field video screen will include a greeting to the Association of Environmental and Engineering Geologists! Other details on the field trip are being finalized.

New Map Identifies Tsunami Hazards for Florence, OR



A new map that highlights three different size tsunamis that could strike Florence has been published by the Oregon Department of Geology and Mineral Industries (DOGAMI). "This scenario map shows how three different tsunamis generated by an offshore earthquake might affect the area," explains Dr. George Priest, a coastal hazards geologist with DOGAMI, who prepared the map. IMS-25 - Tsunami Hazard Map of the Florence-Siuslaw River Area, Lane County, Oregon, by George Priest, Arun Chawla, and Jonathan C. Allan may be viewed as a guide for evacuation and emergency response planning in the event of an earthquake and tsunami. The map is not intended to be used for site specific planning.



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

Karl Terzaghi



Annual AEG Student Night: April 15, 2008

Each year, the Student Poster Night comprises the April meeting. The structure of our event will be similar to the AEG Oregon Section along the lines that dinner and drinks will be served. However, rather than a single professional presentation following the dinner, a poster session will be held giving students a chance to shine. Students from all universities in Oregon and Idaho are encouraged to attend and submit a poster title. Participants are not required to be AEG members. Poster topics should preferably be within the field of applied geology (Note: applied geology can have a hazy line) and can range from term projects to thesis research for undergraduate and graduate students. The local AEG professional community will be attending the event; therefore a booklet of participants' resumes will be prepared and available for the professionals. A committee from the AEG Oregon Section will be judging and awarding several \$100 and \$200 prizes for outstanding posters.

Due Dates and Timeline below:

March 25 (Tuesday):	Poster Titles and Abstracts are Due Submit to: aegeol@pdx.edu
April 1 (Tuesday):	Announcement of Poster Titles
April 10 (Thursday):	Reservations due for meal/attendance
April 11 (Friday):	Resumes are due for participants
Event Details:	April 15, 2008 at 5:30-9:00pm Submit to: aegeol@pdx.edu Rooms 327/328/329 of Smith Memorial Union at Portland State University

Costs for Dinner: Student - \$9.00 Non-student - \$18.00 Beverages included

Please contact AEG Student Chapter President Scott Braunsten with any questions, sbb@pdx.edu

A sample of poster titles:

"Colloid Geochemistry and Mineralogy in the Little North Santiam, North Santiam River Basin, Oregon, with Potential for Mitigation of Storm Induced Turbidity Events." Tim Blazina

"Distribution of heavy metals and trace elements in soils of northwest Oregon" Darrick Boschmann

"Subsurface Structure in the Vicinity of Sheepy Ridge, Upper Klamath Basin, California, using gravity anomalies" Scott Braunsten

"Sulfur-rich Apatites in Silicic, Calc-alkaline Magmas: Inherited or not?" Cindy Broderick

"GIS favorability analysis of geothermal resources in Central Alaska" Charles Cannon

"Primitive Absarokites from Larch Mountain Oregon: Implications for subduction zone processes" Adam Jones

"Storm Unleashes Massive Debris Flows on Mount Hood, Oregon, November, 2006" Rachel Pirot

"Predicting Glacier Occurrence in the Pacific Northwest" Danielle Sitts, Rusty Griffin, and Ryan Cole

"Debris flow complex in Milk Creek, Mount Jefferson, Oregon, November 2006" Steven Sobieszczyk



Help PSU Geology Department Celebrate its 50th Anniversary - Come to the Evening of Wine and Soils

The PSU Geology Department is celebrating its 50th birthday this year.

We are having a fun evening to raise money for a scholarship for a student. It is called the Wine and Soils event. It will be held on Saturday, March 15th at the University Place (SW 4th and Lincoln at the corner of the PSU

campus) from 5:30-9:30 PM. It will include the tasting of 20 Oregon wines from 5:30-7:00 followed by a nice dinner from 7:00 -8:00 PM and a talk on Oregon terroir by one of Oregon's foremost authorities on the subject, Professor Scott Burns. Cost is \$75/person or buy a table for \$750 and be an official sponsor of the event. Many local firms

are buying tables.

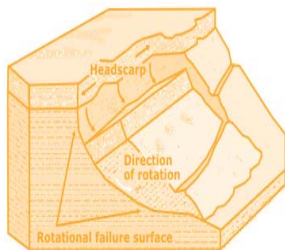
For more information or to sign up, call Nancy Erickson at 503-725-3022. For specifics on the event, call Scott Burns, 503-725-3389 or burnss@pdx.edu.

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

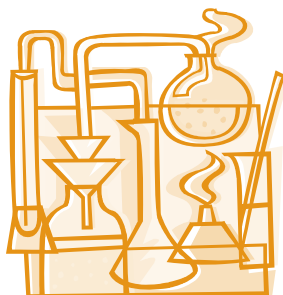
media is preferred. Deadline for submittal is Friday three weeks before each meeting. Advertising: business card \$10/mo, \$100/yr; ¼ page \$30/mo, \$200/yr; ½ page \$35/mo, \$350/yr. Please notify Bill if you have a change to your email or mailing address.



The 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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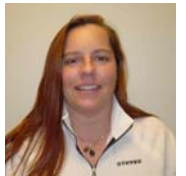
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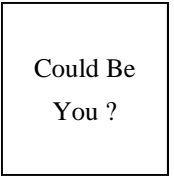
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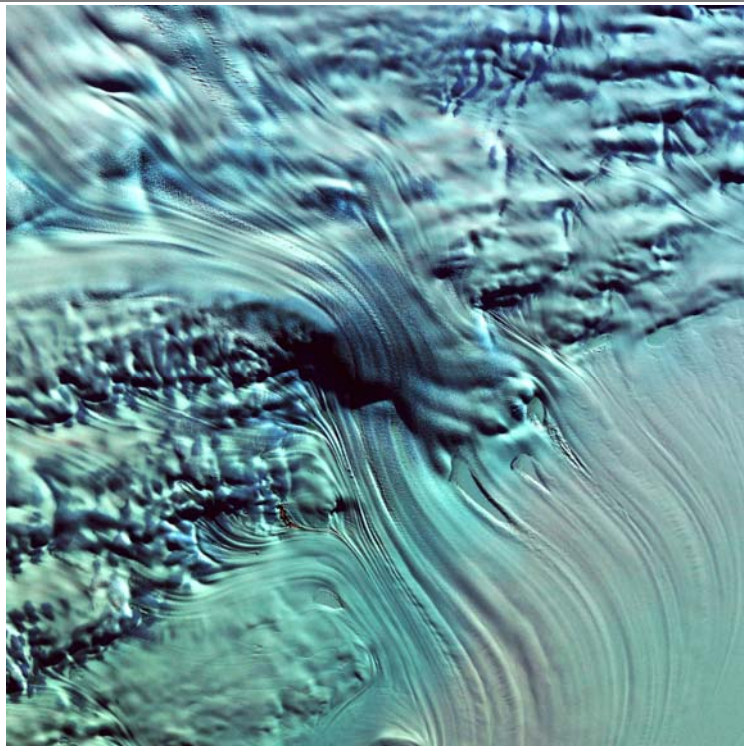


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Photo of the Month

The February photo/image is from the USGS, Earth as Art Image Collection. This image was acquired from Landsat7 in December 2000. The Lambert Glacier in Antarctica is the world's largest glacier. The focal point of this image is an icefall that feeds into the glacier from the vast ice sheet covering the polar plateau. Ice flows like water, albeit much more slowly. Cracks can be seen in this icefall as it bends and twists on its slow-motion descent 1300 feet (400 meters) to the glacier below.

For more information on Earth as Art Image Collection, see <http://edcsns17.cr.usgs.gov/EarthExplorer/>



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