



The Official

# Newsletter

of the Oregon Section Association of Engineering Geologists

Serving Professionals in Engineering, Environmental, and Groundwater Geology

## APRIL 2004 SECTION MEETING

### STUDENT NIGHT AT PORTLAND STATE UNIVERSITY

### STUDENT POSTERS FEATURING UNDERGRADUATE AND GRADUATE WORK/RESEARCH

Anticipated posters include:

**Jon Ebnet & Shaun Marcott**

Engineering Properties of Clays on the Oregon Coast; Holocene and Pleistocene Dunes

**Soren Clark and Val Nelson**

Scappoose Watershed, Oregon; Soil Assessment and Recommendations for Wetland Rehabilitation Based on Soil Properties

**Shaun Marcott**

A Tale of Three Sisters: Reconstruction of Glaciation During the Last Glacial Maximum Using Radiocarbon Dating Techniques at South Sister, Oregon, U.S.A.

**Eric Neilsen**

Diatom Deformation and heavy metal contamination in Ten mile Creek, MT

**Aaron Fox and Kenny Janssen**

Computer Based Laboratory G202 and University Studies Program Requirements as Portland State University

**Hiram Henry**

The Role of the Firm Pack in Summer Meltwater Discharge from Temperate Glaciers

**Josh Mathisen**

Disjunctive Kriging of Arsenic Contamination in Bangladesh

**Amy Ebnet**

A temperature index model of stream flow in Taylor Valley, Antarctica

**Peter Sniffen**

Dry-calving of a cold-based polar glacier, Taylor Glacier, McMurdo Dry Valleys, Antarctica

**Julie Griswold**

Hazard Maps for Rapidly Moving Landslides using Inundation Equations in GIS

**Beth Rapp**

The Sandy River Delta, Oregon: a

record of late Holocene volcanism at Mt. Hood and sediment input into the Columbia River

**Heather Easterly**

Soil Survey of the Oswego Hills Vineyard, Lake Oswego, Oregon

**Amy Lamb**

Principal Component Analysis of Loch Ness Water Chemistry

**Jessica Goin**

Assessing the potential to use Raman spectroscopy as a tool to optimize microfossil detection in the geological record

**This Month's Meeting is on Tuesday April 20**

**PSU Smith Memorial Union,  
Room 228 (Multicultural Room)  
SW Broadway between SW  
Montgomery and SW Harrison**

Three-cheese lasagna, green salad, roll, coffee/tea, cookies, chocolate bars, keg and bottle beer

\$13.00 dinner (\$6.50 for students)

6:00 pm Social  
7:00 pm Dinner  
8:00 pm Presentation  
8:30 Bar closes

E-mail [clarksk@pdx.edu](mailto:clarksk@pdx.edu) by 15 Apr., or phone Dr. Burns at 503-724-3389. A reservation made is a reservation paid. Thank you!

Parking available in Parking Structure 1 accessed at SW Sixth Ave.  
Street parking is metered until 7:00 pm

Find a map of PSU and Downtown Portland at:

[http://www.fac.pdx.edu/maps/L-Dir\\_B-W\\_Feb-04.pdf](http://www.fac.pdx.edu/maps/L-Dir_B-W_Feb-04.pdf)

Find directions to PSU at: [http://www.fac.pdx.edu/maps/direction\\_PSU.pdf](http://www.fac.pdx.edu/maps/direction_PSU.pdf)

## MESSAGE FROM THE CHAIR

How quickly the years seem to pass as of late. It was last year about this time that we began seeking volunteers for additional board member positions. As you know Michael Zimmerman stepped up the plate to serve as Treasurer for a year, while Brent Black moved into the Secretary position. Rowland French took his turn as Chair-Elect, and Ruth Wilmoth took her turn as Past Chair. We are now accepting nominations for the treasurer position again, and encourage any member in good standing to consider this opportunity to serve on the AEG Oregon Section Board. This is your association and your chance to make something good happen for our profession.

The process goes like this. Between now and May we accept nominations or volunteers for the treasurer position. In May, we have a vote by mail election for our new officers, who officially take over the new positions in September. The elected officers move annually

though the rotation of board positions, which allows a five year cycle, and opportunity for leadership continuity and mentoring. Many AEG sections have officers hold multi-year terms for continuity on local section business and AEG national board issues. The Oregon Section has chosen to spread the opportunity of participation among our membership by having a one year rotation. We think this allows greater incentive for board participation, avoids burnout, and enhances fresh ideas and dynamic group leadership.

If you are interested in serving on the AEG Oregon Section Board or as a committee chair or co-chair, please contact me or any other board member and we would be pleased to talk with you about your interest. My office number is 503-978-4727, please give me a call.

I'm also excited about the upcoming AEG Oregon Student Chapter April meeting combined

with our regular Section meeting. This has become an annual tradition, where the students present posters and presentations on their work, and throw out a nice dinner spread. The Engineering Geology Professor has even been known to smuggle a keg of beer onto campus. Do you really think you could afford to miss this meeting? I think NOT. This year, for the first time, AEG Oregon Section is offering modest scholarship awards, one for \$200 and one for \$300, to the top presentations selected by a panel of judges that will include students and AEG professionals working together. I think it will be a fun meeting and a chance to meet your future professional associates. Come and support the students, as I'm sure they are working hard to make this meeting a showcase of their interests.

Regards,  
*R. Warren Krager*  
*AEG Oregon Section Chair*

### AEG OR CALENDAR

**May. 18:** George Priest/Charlie Hammond, Johnson Creek Landslide

**June ?:** Special Family Meeting at the ball park?

### OTHER CALENDAR

**Apr. 3:** ASCE Seattle Geotech Group Annual Spring Seminar, Advances in Ground Improvement, see [www.seattleasce.org](http://www.seattleasce.org) or call Doug Lindquist at 206-324-9530 for registration.

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. Email subscriptions are free.

News items are invited and should be sent to: Charlie Hammond, OR Section AEG Newsletter Editor, Cornforth Consultants, 10250 SW Greenburg Road, Portland, OR 97223, email: [or.aeg.news@cornforthconsultants.com](mailto:or.aeg.news@cornforthconsultants.com), phone (503) 452-1100. Electronic media is preferred. Deadline for submittal is Friday three weeks before each meeting.

Please notify Charlie if you have a change to your email or mailing address.

**“CASE HISTORIES IN GEOTECHNICAL ENGINEERING AND  
ENVIRONMENTAL AND ENGINEERING GEOLOGY”  
(PSU G571: Advanced Engineering Geology)**

Spring Quarter, Portland State University, 2004  
Classes Tuesday and Thursday Nights  
First talk at 5:15 PM and second talk at 6:15 PM  
Cramer Hall 69, 1721 SW Broadway, Portland State University

Date, Speaker and Topic

Mar. 30, **Scott Burns**, Portland State University, “Introduction to the Course,” “Geologic Provinces in Oregon, Landslides in Oregon and Geologic Practice in Oregon”

April 6, **David Scofield**, US Army Corps of Engineers, Portland. “Bonneville Fish hatchery Wellfield, Columbia Gorge; A Case History of Groundwater Interaction”

**Bob Miller**, Robert Miller Consulting, West Linn “Environmental cleanup of a major truck stop, Portland, OR”

April 8, **Jamie Schick**, URS Corporation, Portland “SR20 Rockslide, North Cascades Highway, Newhalem, WA”

**Kim Marcus**, URS Corp., Portland “Engineering geology considerations of the Ohio River Superfund site”

April 13, **Bob Kenly**, Slope Indicator, Bothell, Washington “Case Histories of Instrumentation in Engineering Geology and Geotechnical Engineering”

**Matt Brunengo**, Formerly with DNR, State of Washington “Translating information on landslides and debris flows into public policy in Washington”

April 15, **John Kuiper**, AMEC Earth and Environmental, Portland “Choosing the right remedial technology: five case histories of different approaches”

**Bill Burgel**, HDR Corp, Portland “Bonner’s Ferry Landslide, Idaho”

April 20, **Tim Pfeiffer**, Foundation Engineering, Tigard “Rockfall simulation models and a case history from Multnomah Falls, Oregon”

No second talk – **AEG Student Night**, PSU

April 22, **Peter Stroud**, Kleinfelder, Beaverton “Hydrology baseline study, Newberry geothermal project, Newberry Volcano, Central Oregon”

**Anne MacDonald**, URS Corporation, Portland “A highway no longer runs through it; Bear Creek Stream Relocation, Zigzag, Oregon”

April 27, **Rich Rinne**, Hart Crowser, Portland “Lessons learned from the Capes Landslide Reactivation, Tillamook County, Oregon”

**Steve Mumma**, Geobruigg Corporation, Portland “Anchored slope stabilization with high strength steel wire mesh at Boulder Creek, California”

April 29, **Tom DeRoo**, U.S. Forest Service, Mt. Hood National Forest “Debris flow hazards of Mt. Hood, Oregon”

**Jon Koloski**, Principal, Geoengineers, Tacoma, Washington “Geological/geotechnical problems, Swift Power Canal, Cowlitz County PUD, Cowlitz, WA”

May 6, **Craig Ware & Paul Trone**, Geodesign, Tigard “Methane – new rules and challenges in building on old landfills and quarries”

**David Rankin**, Geodesign, Tigard “Sunset Tunnel collapse, Highway 26, Oregon”

May 11, **Frank Reckendorf**, Reckendorf and Associates, Salem “Geologic hazards of development along the Oregon Coast”

No second talk – **International Science Fair at PSU**

May 13, **Mavis Kent**, Department of Environmental Quality, Portland “Basic geology is still important in cleaning environmental sites”

**Rick Kent**, Geoenvironmental and Geologic Services, Battleground “Engineering geology study along Johnson Creek, Portland”

*(Continued on page 4)*

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**May 18, John Sager**, Cornforth Consultants, Portland (Retired Corps of Engineers), “Engineering geology and geotechnical engineering in the development of the Spirit Lake Tunnel and the Sediment Retention Structure on the Toutle River, Washington”

**Gary Peterson**, Squier/Kleinfelder Associates, Beaverton “Engineering geology and drainage of the Arizona Inn landslide, US Highway 101, southern Oregon coast”

**May 20, Dave Michael & Jason Hinkle**, Oregon Dept. of Forestry, Forest Grove “Landslide investigation causes: geologic processes vs. guilt by association: examples from Cape Foulweather (Highway 101), the new Winslow Quarry Slide, and others”

**May 25, Tom Kuper**, Kuper Consulting, Tualatin “Sand, gravel and basalt aggregate resources: a case history of siting a quarry, Willamette Valley, Oregon”

**Dorian Kuper**, Kuper Consulting, Tualatin “Reclamation of aggregate quarries: a case history”

**May 27, Sue D’Agnese**, Region 3 Geology Manager, ODOT, Roseburg “Wilson River rockslide, MP31, Highway 6, Tillamook Country”

**Paul McBeth**, PNG Environmental, Tigard “McCormick and Baxter superfund hazardous waste site, Portland, Oregon”

**June 1, Charlie Hammond**, Cornforth Consultants, Portland “Engineering geology of the Barney Reservoir Dam raise, Oregon Coast Range”

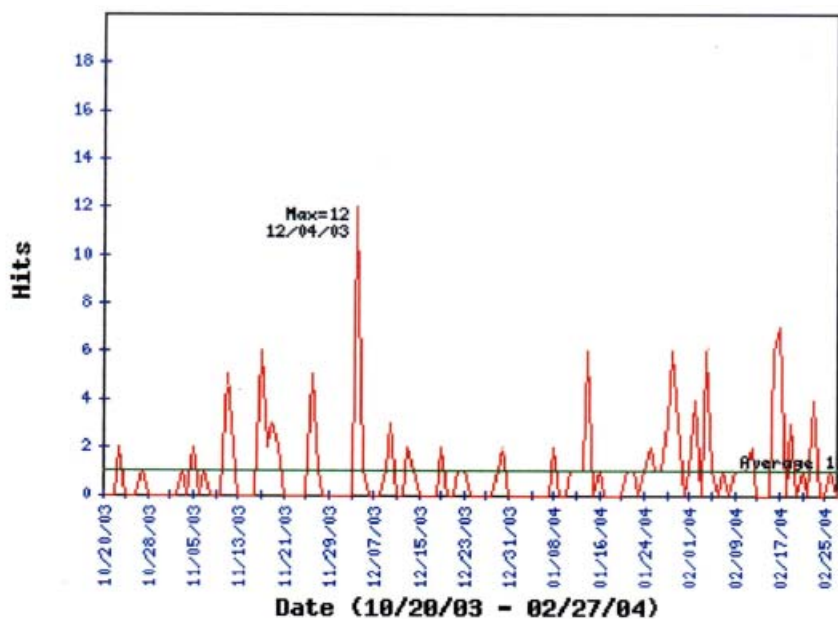
**Tim Blackwood**, Geoengineers, Tigard “Pitfalls to avoid in landslide evaluation: 3 case histories”

**June 3, Jim Struthers & Doug Anderson**, Washington DOT, Olympia “Rockslope stability in northern Washington,” “Highway alignment in eastern Washington,” “Landslide movement monitored remotely by satellite imagery”

For more information, call Scott Burns (503-725-3389).

## AEG OREGON SECTION WEBSITE

The Section website ([www.aegoregon.org](http://www.aegoregon.org)) has officially been up and running since November 2003. Since that time we have had about 120 hits or about > 1 hit per day. The chart below is a graph of hits per day...with a maximum of 12 hits on December 4, 2003. Two other peaks of 6 and 7 hits per day are shown on November 18th and February 16. November 18th was the night the website was formally announced at the Section meeting, and February 16 was Presidents Day (must have been a few people Geo-Surfin' on their vacation day). In early February a link from the AEG National website was established ([http://www.aegweb.org/cgi-bin/section\\_detail.php?section=or](http://www.aegweb.org/cgi-bin/section_detail.php?section=or)). The Board hopes to announce opportunity for corporate sponsor-



ship of the website very soon. Thanks to Jane Feinberg with GRI for developing and maintaining the

site. Feel free to send any comments or feedback on the website to George Freitag ([gfreitag@gri.com](mailto:gfreitag@gri.com)).

# THANKS FOR SUPPORTING OREGON AEG!

Columbia Geotechnical, Inc.  
Cornforth Consultants, Inc.  
Geo-Tech Explorations, Inc.

GRI, Inc.  
Northwest Geophysical Assoc, Inc.  
PBS Environmental

PSI, Inc.  
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## NEWS ITEMS

**Membership Information:** If your membership information has changed, please take the time to update through the AEG Website or by contacting our Chief Staff Executive Becky Roland at (303) 757-2926 x307

**"Seeking Old AEG Annual Directories":** If anybody has any

pre-1997 AEG annual directories, please email George Freitag, History Chair at gfreitag@gri.com. George is compiling our sections history. His mailing address is: GRI Inc., 9725 SW Beaverton-Hillsdale Hwy, Beaverton, OR 97005

**Receive Your Newsletter by E-Mail:** PLEASE TAKE THE TIME TO SWITCH TO THE E-MAIL NEWSLETTER. This saves the Section money and simplifies the editor's job. Please send your e-mail address to or.aeg.news@cornforthconsultants.com

## PSU AEG STUDENT CHAPTER

### 2004 Officers

Soren Clark: President  
Josh Mathisen: Vice-President  
Susan Wacaster: Secretary

Aaron Fox: Brownbag and Field Trip Wrangler  
Scott Burns: Faculty Advisor and Lead Wine Taster

### Website

<http://web.pdx.edu/~clarksk/aeg.html>

## OREGON SECTION OFFICERS & COMMITTEE CHAIRS



**Chair: Warren Krager,** PSI, Inc., (503)978-4727, wkrager@aol.com



**Chair-Elect: Rowland French,** Northwest Geophysical Associates, Inc., (541)757-7231, rowland@nga.com



**Secretary: Brent Black,** Cornforth Consultants, Inc., (503)452-1100, bblack@cornforthconsultants.com

**Treasurer: Mike Zimmerman,** GRI, Inc., (503) 641-3478, mzimmerman@gri.com



**Past-Chair: Ruth Wilmoth,** Columbia Geotechnical, (360)944-7397, cgivanc@aol.com

### PSU Student Chapter

**President:** Soren Clark, clarksk@pdx.edu

**Program Chairs: Julie Griswold,** griswold@pdx.edu



**Tim Richter,** URS Corporation, Inc., (503) 948-7213, tim\_richter@urscorp.com



**Membership Chair: Matt Brunengo,** (503) 534-0414, mbrunengo@aol.com

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**History Chair: George Freitag,** GRI, Inc., (503) 641-

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OREGON SECTION

