



The Official

Newsletter

of the Oregon Section Association of Engineering Geologists

Serving Professionals in Engineering, Environmental, and Groundwater Geology

APRIL 2005 SECTION MEETING

STUDENT NIGHT

STUDENT POSTERS FEATURING GRADUATE AND UNDERGRADUATE RESEARCH

The 4th annual Student Poster Night will be hosted by the PSU student chapter of AEG on April 19, 2005. A poster session will highlight the academic activities and research of both graduate and undergraduate students from Oregon universities. A panel of university faculty, private and government professionals will review posters and grant awards to outstanding posters. Dinner will follow the poster session along with presentation of student awards.

In past years this has been a gregarious, and social evening, encouraging interaction between professionals and students. The range of poster topics has historically been large, including groundwater remediation, slope stability, debris flows, coastal stratigraphy, glacial hydrology, paleoclimatology, groundwater and numerical modeling, hydrogeochemistry and volcanology.

Anticipated posters include:

Josh Mathisen

Low Cost Landslide Profiling

Rick Pasley

Petrography of the Wuxsi Volcanic Chain, Central Oregon

Sheryle Quinn

Thermal cycles at the base of a floating ice mass driven by ice heat flow through the ice

Ashleigh Fines

Fracture patterns and the reconstruction of ice stream dynamics on the Ross Ice Shelf, Antarctica: Current work and mapping methodology

Christopher Sheridan

Investigation of paleo-climate at 11N,0W using stable isotopes.

Matt Hoffman

Development of a 3-D Rendered Panoramic View of the Cascades of Northern Oregon

Beth Rapp

The Holocene Stratigraphy of the Sandy River Delta, Oregon

Chris LeDoux

A comparison of two South American ice cores and regional climate forcing since 20,000 years ago

Summer Praetorius

A Sediment Record of Bottom Currents in the North Atlantic since the Last Ice Age.

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This Month's Meeting is on Tuesday April 19

**PSU Smith Memorial Union,
Room 327-329**

**1800 SW Broadway
Portland, OR**

6:00 pm Poster Session & Social
7:30 pm Dinner
8:30 pm Awards

\$20.00 dinner (\$10.00 for students)

Four Cheese Lasagna, seasonal vegetables, mixed green salad

Call 503-639-3400, or email <glenda.christman@amec.com> with "AEG Reservations" in the subject line, by 4 pm Thurs Apr 14. There is a \$2.00 surcharge for those who do not reserve by the deadline.

Parking: Metered street parking is free after 6:00 pm. If you need off street parking, check in at the kiosk in Parking Structure #1 on 6th Ave between Hall and Harrison. Inform the attendant that you are with the PSU AEG. For a map of the PSU campus, Smith Center and Parking Structure, see this website: <http://www.pdx.edu/media/c/a/campusmap_bw.pdf>

MESSAGE FROM THE CHAIR

I look forward to this month's Student Night presentations. It is always a good meeting with interactions between students and the practitioners. The Student Section has worked hard to put this meeting together and students are presenting work to which they have devoted many months or years. Mark your calendar, April 19th, and don't forget to call Glenda with your reservations.

A quick reminder that May 1 is the abstract deadline for the Las Vegas AEG Annual Meeting in September.

Matt Rea's presentation on the management of the Willamette River Basin brought together several issues: the diverse and ever increasing demands for water, the unpredictable nature and vulnerability of our surface water resources, and the public policies which

allocate those resources to competing users.

As scientists and engineers we might like to ignore the public policy part of the issue, but we are being drawn into those discussions more and more. We must not shy away from those discussions as our input is critical. Without our professional input policy makers can do strange things. As an example I would note the battle between "creationism" and science which is occurring in many school districts across the nation.

Much of the issue is public awareness and public education. As Matt Rea noted in his introduction, he was embarking on a public relations/public education venture which would take his presentation to several communities in the Willamette Valley. The public is becoming increasingly savvy in

considering the science of issues. The potential water shortage is real phenomena which the public understands. The competing uses are less well understood.

Flood control, fisheries, hydroelectric power, agriculture, recreation and lawyers all have legitimate requirements for water (with the possible exception of the latter). The balance between these is a juggling act which requires multi disciplinary input and some value judgments. We need to understand the whole picture and the relationships between the individual parts. Not everyone will be happy with the outcome, but we must understand the competing requirements and the science behind the decisions.

Hope to see you all April 19.

Rowland French

AEG Oregon Section Chair

(Continued from page 1)

Hiram Henry

A study of the role of glacial firn pack in the summer meltwater discharge from temperate glaciers

Soren Clark

Muddy Fork Debris Avalanche and Debris Flow, Mount Hood, Oregon: Failure Attributes, Characterization, and Significance

Jon Ebnet

Numerical model predicting meltwater production for polar glaciers

in Taylor Valley, McMurdo Dry Valleys, Antarctica

Nathan Smith

Crustal deformation models of the Cascadia subduction zone compared with GPS displacements.

Shaun Marcott

A Tale of Three Sisters: Reconstructing the glacial history and paleoclimate record near the Pleistocene-Holocene transition at Three Sisters Volcanoes, Oregon, United States

Niki Parenteau

Biosignature formation by Cyanobacteria and Chloroflexus in the shallow deposits of a high iron thermal spring

Peter Sniffen

Dry calving at the terminus of a polar glacier, Taylor Glacier, McMurdo Dry Valleys, Antarctica.

Amy Lamb

Crane Glacier Speed-Up

AEG OREGON CALENDAR

Apr. 7: ATC-35 Seminar on New Knowledge of Earthquake Hazards in Oregon and Implications for Seismic Design Practice (SEE NEWS ITEMS)
Apr 12-14: 5th Washington

Hydrogeology Symposium (SEE NEWS ITEMS)

Apr 18: EERI, Learning from Earthquakes, (SEE NEWS ITEMS)

Apr 19: Student Night at PSU

May 17: Jeff Keaton, subject TBA

Sept. 17-25: 2005 AEG Annual Meeting - "Under the Neon" in Las Vegas, Nevada, Abstract deadline: May 1.

THANKS FOR SUPPORTING OREGON AEG!

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NEWS ITEMS

ATC-35 Seminar on New Knowledge of Earthquake Hazards in Oregon and Implications for Seismic Design Practice, April 7, 2005, Portland, Oregon

Part I, new knowledge of earthquake hazard is described, including seismic sources, ground motion attenuation, and USGS 1996 and 2002 probabilistic earthquake ground motion maps. For historical perspective, a lead-in talk is planned describing the history of ground motion characterization for building codes in Oregon through the 1997 Uniform Building Code. Part II deals with ground motion characterization for design, including ground motion characterization using the International Building Code (IBC) recently adopted in Oregon, and site-specific ground motion characterization. Part III covers the implications of new knowledge of earthquake hazard on seismic design in Oregon, including seismic design of buildings, seismic design of subbridges, and design to mitigate seismically-induced soil liquefaction. Following presentations in each part, there will be moderated panel and audience discussions. The speakers, moderators, and panelists include geologists and seismologists from the USGS, DOGAMI, and other organi-

zations, and practicing geotechnical engineers and structural engineers.

For more information contact Applied Technology Council, (650)595-1542, www.atcouncil.org.

Wash. Hydrogeology Symposia, Apr. 12-14, 2005

The 5th Washington Hydrogeology Symposium will be held April 12-14, 2005, at the Tacoma Sheraton Convention Center, Tacoma, WA. For more information see the Department of Ecology web site: <http://www.ecy.wa.gov/events/hg/index.htm>

EERI Technical Briefing: The Great Sumatra Earthquake and Tsunami of Dec. 26, 2004, Apr. 18, 2005

Presentations by members of the Earthquake Engineering Research Institute (EERI) and ASCE Technical Council on Lifeline Earth-

quake Engineering (TCLEE) Sumatra Earthquake and Tsunami Reconnaissance Teams and other contributors. Topics

will include tsunami science & damage, performance of lifelines and buildings, land use planning, and Oregon's state of readiness.

For more information see the EERI web site: http://www.eeri.org/life/clearinghouse/sumatra_tsunami/briefings.html. Mon, Apr. 18, 2005, 4:00 - 6: 30 pm, Room 327-9, Smith Memorial Student Union, 1825 SW Broadway, PSU. RSVP: Juliane@eeri.org or Juliane at (510) 451-0905. Sign up early (space is limited).

2005 AEG Annual Meeting, Sept. 17-25, 2005

Plan to attend the 2005 AEG Annual Meeting - "Under the Neon" in Las Vegas, Nevada, September 17 - 25! For more information log on to www.aegweb.org. Abstract deadline is May 1, 2005.

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: Charlie Hammond, OR Section AEG Newsletter Editor, Cornforth Consultants, 10250 SW Greenburg Road, Portland, OR 97223, e-mail: or.aeg.news@cornforthconsultants.com, phone (503) 452-1100. 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 Charlie if you have a change to your email or mailing address.

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