



The Official

Newsletter

of the Oregon Section Association of Engineering Geologists

Serving Professionals in Engineering, Environmental, and Groundwater Geology

MARCH 2005 SECTION MEETING

GUESTS: MATT REA, US ARMY CORPS OF ENGINEERS, PORTLAND DISTRICT
PRESENTATION: WILLAMETTE RIVER BASIN MANAGEMENT

"The Pacific Northwest is currently experiencing an extremely dry winter that could end up being one of the driest on record if normal precipitation doesn't return soon. The Willamette Basin in Oregon is particularly dry. As of the beginning of February, precipitation for the water year, which began on October 1, was about 58 percent of normal. Snowpack conditions are even worse, with approximately 30 percent of average annual snow-water equivalent in the basin.

The US Army Corps of Engineers has long-standing and important role in managing the water resources of the Willamette Basin. The 13 Corps reservoirs on the major tributaries of the Willamette control flows in about 40 percent of the basin as measured as Portland. In a normal or wetter water year, the Corps can store a combined total of up to 1.6 million acre feet of water in the reservoirs to meet the multiple purposes for which the projects are authorized, including hydropower, irrigation, recreation, municipal and industrial water supply, and flow augmentation for water quality improvement and fish and wildlife habitat. Under current water supply forecasts, the Corps expects to be able to store about half the conservation storage in 2005.

The Corps and its water management partners in the Willamette Basin, including other Federal and state agencies, face some difficult decisions this year in determining how to balance the limited water stored in the reservoirs to meet often conflicting needs. Mr. Rea will describe the Willamette System of reservoirs and its operating purposes and criteria, the tools that the Corps uses to forecast, model and manage the Willamette system, current forecasts of reservoir storage and use and streamflow in the basin, and drought contingency planning

efforts".

Bio: Matt is a Community Planner with the U.S. Army Corps of Engineers, Portland District, in Portland Oregon. He works as a Project Manager within the Planning Branch of the district's Programs, Project Management and Planning Division. He is currently managing two General Investigations feasibility studies, one an ecosystem restoration study looking at opportunities for restoring natural floodplain functions in the Willamette River basin and the

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This Month's Meeting is on Tuesday March 22

(Note: this is the 4th Tuesday of the month)

Madison's Grill & Catering
1109 SE Madison Ave.
Portland, OR 97214
(503.230.2471)

6:00 pm Social
7:00 pm Dinner
8:00 pm Presentation

\$20.00 dinner (\$10.00 for students)

Pasta bar including chicken & salad
(Green salad with dressing choice,

Penne pasta, Seasoned chicken, Steamed vegetables, Fresh tomato and basil marinara, Sundried tomato cream sauce, Bread stick, Holiday cookie)

Call 503-639-3400, or email <glenda.christman@amec.com> with "AEG Reservations" in the subject line, by 4 pm Thurs Mar 17. There is a \$2.00 surcharge for those who do not reserve by the deadline, so call now!

MESSAGE FROM THE CHAIR

I look forward to this month's presentation by Matt Rea of the Corps of Engineers on the Willamette River Basin Management. The April meeting will be our student night. In May the speaker will be Jeff Keaton, last year's Jahns Lecturer and recipient of many professional honors.

It's that time of year again when we are seeking new leadership faces within the AEG Oregon Section. We have a long legacy of distinguished leadership within the group, and I see many capable faces at our meetings. Our present officers are: Warren Krager-Past Chair, myself, Rowland French-Chair, Brent Black-Chair-Elect, Michael Zim-

merman-Secretary, and Matt Brungo-Treasurer. Next fall the officers will all step up one rung to the next position and we will have a new Treasurer. That new Treasurer could be you. I have found my work on the board to be very rewarding, working with a small group who care about the AEG and where it is going. If you have questions about the responsibilities, time commitment, or other aspects of the positions, please contact myself or any one of your Board members.

We have two other positions opening up. Julie Griswold is stepping down as Program Co-Chair and Charlie Hammond is ready to step aside as Newsletter Editor.

Julie has done a great job lining up speakers and meeting locations for 3-4 years and is ready to step aside. Lisa Glonek will continue as Co-Chair but would like some assistance.

Charlie Hammond has produced a fantastic newsletter for many years. Our newsletter is the envy of other sections. Charlie has agreed to continue for next year but would like to train a new person for the job. If you're interested, talk to Charlie or one of your Board members.

Hope to see you all March 22.

Rowland French

AEG Oregon Section Chair

AEG OREGON CALENDAR

Apr. 7: 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 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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other an evaluation of the potential for reallocation of storage in the Corps' 13-dam Willamette Reservoir system. He also manages one Section 1135 project currently under construction, which is restoring 400 acres of wet prairie wetland habitat in west Eugene, Oregon. In addition to his Project Management duties, Mr. Rea also serves as the district's Willamette Basin Coordinator. In

that role, he is facilitating ongoing Endangered Species Act Section 7 consultation for continued operation of the Willamette Reservoirs, and is working with the Oregon Department of Environmental Quality under the Clean Water Act to develop Total Maximum Daily Load allocations for the Willamette projects. Mr. Rea has been with the Portland District for 26 years. He has a B.S. in Forest Resource

Management (Outdoor Recreation Planning) from Oregon State University (1979). In his spare time, Mr. Rea is a volunteer ski patroller with the Mt. Hood Ski Patrol. He also enjoys fly fishing, camping, hiking, running and homebrewing. Matt and his wife Tina live in Portland with their 6-year old daughter, Kira.

NEWS ITEMS

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

AEG Oregon is co-sponsoring this event, which is being organized by the Applied Technology Council (ATC), the U.S. Geological Survey (USGS), and the Oregon Department of Geology and Mineral Industries (DOGAMI). The complete program and registration information will be mailed by the ATC to AEG members when it becomes available. Below is the preliminary information which we have at press time:

It is planned that the seminar will be conducted in three parts. In 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 In-

ternational 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 bridges, 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 organizations, and practicing geotechnical engineers and structural engineers.

Wash. Hydrogeology Symposia

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>

The Oregon Section is joining the Washington Section of the AEG in sponsoring a booth at this symposia. Anyone who is interested in helping to staff the booth for 1-2 hours please contact Mark Molinari, WA Section Chair: phone: (206) 438-2700 ext. 2235, e-mail: mark_molinari@urscorp.com

2005 AEG Annual Meeting

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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