



Serving Professionals in Engineering, Environmental,
and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

Jan., 2001

VOLUME 01, NUMBER 01

JANUARY MEETING:

Speaker: **Gary Peterson**

Talk: **“Geologic Hazards and Public Policy, with a focus on
Salem’s New Landslide Hazard Ordinance”**

Date: **Thursday, January 18, 2001**

Times: 6:00 PM Social hour
7:00 PM Dinner
8:00 PM Presentation

Where: **McMenamins Cedar Hills**
2927 SW Cedar Hills Blvd.
Beaverton, Oregon

Menu: \$10/Person: Chicken Extravaganza, High Pasta
Communication Breakdown Burger, Cheeseburger
Or Garden Burger

Reservations: Call David James, 503-684-3460 (ext. 226) by noon Friday (1/12/01)
“A reservation made is a reservation paid.” Please call to cancel if you can not attend. Thank you!

ABOUT THE TALK:

Geologic Hazards and Public Policy, with a focus on Salem's New Landslide Hazard Ordinance – With discussion of related controversy regarding the practice of Geology in Oregon.

The wet winters of 1996-1998 brought renewed landslide activity to Oregon, along with a renewed public focus on landslide hazard policy. Increased rainfall, combined with rapid residential development in landslide susceptible terrain brought lawsuits to the City of Salem. DOGAMI together with the City of Salem began development of what was hoped would be a model landslide hazard policy development. Squier Associates, myself and Andrew Harvey participated in this process through landslide susceptibility mapping, and through volunteered participation in the public process that helped to develop the policy. In the author's opinion, the policy recently developed by the City of Salem represents the leading edge in landslide hazard policy, nationwide. With adoption of the resulting policy by the City of Salem, and pending adoption by Marion County, this landslide policy and other geologic hazards policies under development have become a focus of dispute in our professional community. This dispute centers around geologists and engineer's legal bounds of professional practice.

In this presentation, the development of the City of Salem and Marion County's landslide hazard ordinance will be discussed. Other public policy actions relating to geologic hazards will also be briefly addressed, including Goal 7 of the State Land Use Policy, and SB12 relating to fast moving landslide hazards with particular focus on Douglas County.

Requirements for the involvement of CEGs and RGs in these new codes is triggering controversy, as some engineers view the codes as restraint of trade. At the same time, practicing CEG's have been cited by the Board of Engineering Examiners (OSBEELS) for the unlicensed practice of engineering. The resulting controversy and conflict represents the most contentious situation witnessed throughout my Oregon career. Our profession is at risk of compromise, to no one's benefit. This discussion will examine some of these issues, though no solutions can be promised.

Message from the Chair (Jan. 2001)

Welcome to the new millennium, and we at AEG Oregon Section are happy to.... enough of the new millennium speech, let's just get on with this months message.

New Committee Chairs

On behalf of the Oregon Section, I wish to thank two of our members who have volunteered. Tom Kuper of Kuper Consulting is our new Field Trip Committee Chair. Tom has some good experience with field trips, including co-managing the field trip program for the 1997 Annual Meeting in Portland, and participating on numerous others. With Tom's experience and background we can look forward to some interesting excursions.

George Freitag of GRI Inc. is our new History Committee Chair. George volunteered for this position because he thought he would be simply sitting down with a cold one and shooting the breeze with some of our long-time members. Although this may be partially true George, you should also anticipate some effort in putting the history to paper or computer file!

Due to volunteers like Tom and George, Oregon Section continues to be an active AEG Section, and the leading forum for engineering geologists in the region. Thanks!!

CEG-PE Overlap Committee

The overlap issues between engineering geology and geotechnical engineering are potentially significant for both professions. Are you interested in being part of a special committee to address the issues? The committee would review and update the issues, and be in a position to provide opinions that represent a majority of our members. A small group of members have already volunteered to participate; however, there is a need for a few more. It would also be good if one or more sole practitioners can participate. If you are able to take advantage of email communication or faxing, it is probably not necessary to be located in the Portland area. The special committee also needs a Chairman to step forward and get it off and running. If you are interested, please contact me through my numbers and addresses listed at the end of this newsletter.

January Meeting

Gary Peterson, Vice President of Squier Associates and past Oregon Section Chair, will be joining us at the Cedar Hills McMenamin's to talk about the Salem landslide studies and public policy issues. I look forward to a good turnout at this timely presentation.

Charlie Hammond - AEG Oregon Section Chair

AEG CALENDAR

| | |
|---------|--|
| Jan. 18 | Location: McMenamins Cedar Hills Speaker: Gary Peterson, Squire Associates "Geologic Hazards and Public Policy, with a focus on Salem's New Landslide Ordinance" |
| Feb. 15 | Joint Meeting ASCE, ASCE GEOTECH, AEG Speaker Bob Koerner – Drexel University Philadelphia "Emerging Applications of Geosynthetics in Design And Construction" (Joint with Geosynthetics Conference 2001) Location: Lloyd Center Double Tree Hotel |

EDITORS NOTE:

Scott Burns has invited any Oregon engineering geologists or geotechnical engineers to attend these Advance Engineering Geology “Case Histories..” talks he included the following information with the schedule:

You can come to any class that you want without signing up if you want to attend just a couple. If you want to take the course for credit, we will have all of the paperwork available in class. To take it for credit to use toward a graduate degree costs about \$950. To audit (come to 80% of classes and no papers or exams) or take it for undergraduate credit to use toward an undergrad degree, costs \$387. Those costs are the same for in-state and out-of-state. The first speakers on the list are from 5:20 – 6:00 PM and the second speakers are from 6:05-6:50 PM.

G571: ADVANCED ENGINEERING GEOLOGY “Case Histories in Geotechnical Engineering and Environmental and Engineering Geology”

Winter Quarter, Portland State University, 2001

Classes Monday and Wednesday Nights

| Date | Speaker and Topic |
|-------------|--|
| Jan. 8 | Scott Burns, Portland State University, “Introduction to the Course” “Geologic Provinces in Oregon, Landslides in Oregon and Geologic Practice in Oregon” |
| Jan. 10 | Kim Marcus, URS Corp., Portland “Siting Assessment for a CDF (confined disposal facility) on Hayden Island, Portland, for dredge disposal” Dave Michael, Oregon Dept. of Forestry, Forest Grove “A drainage solution for a reactivated ancient landslide in Forest Grove, Oregon” |
| Jan. 17 | Ken Shumpf, CH2MHILL, Portland “Natural Attenuation of Chlorophenols; A Case History from Seattle” David Scofield, Scofield Geotechnical, West Linn “Bonneville Fish hatchery Wellfield, Columbia Gorge; A Case History of Groundwater Interaction” |
| Jan. 22 | Tim Pfeiffer, Foundation Engineering, Tigard |

“Rockfall simulation models and a case history from Multnomah Falls, Oregon”

Ian Madin, DOGAMI, Portland

“Earthquake Risks and Mitigation in Oregon”

Jan. 24

John Sager, Retired, Corps on Engineers and now, Cornforth Consultants, Tigard

“Engineering geology and geotechnical engineering in the development of the Spirit Lake Tunnel and the Sediment Retention Structure on the Toutle River, Washington”

Rich Reine, Hart Crowser, Portland

“Lessons learned from the Capes, Tillamook County”

Jan. 29

Charlie Hammond, Cornforth Consultants, Tigard

“Engineering geology of the Trask River Dam raise, Oregon Coast Range”

Rad Squier, retired principal from Squier Associates, Lake Oswego

“Two debris flows in the Oregon Coast Range: logging and public policy impacts”

Jan. 31

Frank Reckendorf, Reckendorf and Associates, Salem

“Geologic hazards of development on sand dunes along the Oregon Coast”

Trevor Smith, Professor, Portland State University, Civil Engin.

“In situ lateral load testing and prediction at Bonneville Dam”

Feb. 5

Gary Peterson, Squier Associates, Lake Oswego

“Engineering geology and drainage of the Arizona Inn landslide, US Highway 101, southern Oregon coast”

“Bonneville juvenile bypass outfall foundation at Bonneville Dam”

Feb. 7

MIDTERM EXAM

Feb. 12

Bill Burgel, HDR Corp, Tigard

“Union Pacific Railroad’s Blue Mountain Tunnel feasibility study in NE Oregon”

“Bonner’s Ferry Landslide, Idaho”

Feb. 14:

Tom Kuper, Kuper Consultants, Tualatin

“Officer’s Dam slurry trench repair, Izee, Oregon

Dorian Kuper, Kuper Consultants, Tualatin

“Incorporating the Endangered Species Act into reclaiming quarries along rivers in Oregon”

Feb. 19

Tim Blackwood, Carlson Testing and Geotechnical, Portland

“Mass wasting assessments in the analysis of two watersheds on private timberland in Oregon Coast and Cascade Ranges”

“Landslide interpretation and stabilization using data from reconnaissance and construction, Oregon Cascades”

Feb. 21

John Kuiper, AMEC Earth and Environmental

“Characterization, risk assessment and remediation strategies of

chlorinated solvent contamination, Highway 99, SE
Portland”

Peter Stroud, Kleinfelder, Beaverton

“Hydrology baseline study, Newberry geothermal project, Newberry
Volcano, Central Oregon”

Feb. 26 **Paul McBeth, PNG Environmental, Tigard**
 “McCormick and Baxter hazardous waste site, Portland, Oregon”

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

Feb. 28 **Bob Miller, Robert Miller Consulting, West Linn**
 “Bioremediation through injection at the Calgon site, Kalama”
 “Environmental cleanup of a major truck stop, Portland, OR”

Mar. 5 **Doug Schwarm, Geoengineers, Tualatin**
 “Influence of overconsolidation ratio profile on compressible
 silts, Longview, WA”

Jim Struthers, Squier Associates, Lake Oswego
 “Engineering geology of the Tanner Creek stream diversion
 and alignment selection, Portland”

Mar. 7 **Mavis Kent, Department of Environmental Quality, Portland**
 “Basic geology is still important in cleaning environmental sites”

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

Mar. 12 **Jon Koloski, Principal, Geoengineers, Tacoma**
 “A Major Cross-Country Pipeline and Geological Hazards
 Associated with it: Two Example Locations”

Mar. 14 **Bob Kenly, Slope Indicator, Bothell, Washington**
 “Case Histories of Instrumentation in Engineering Geology
 and Geotechnical Engineering”

Bob Deacon, Wright-Deacon Associates, Portland
 “Collapsed lava tubes cause redesign of foundation scheme of
 St. Vincent’s Hospital, Portland, Oregon”

Mar. 19: **Final Exam: 15:30 – 19:20**

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

Course textbook: Environmental, Groundwater and Engineering Geology: Applications from Oregon, Burns editor, 1998, Star Publishing

Short News Items

Green Briefcases: Remember those green briefcase bags that we have left over from the Seattle annual meeting? Well, now is the time to pick one or more up for \$5.00 each. That's less than you spend for lunch! People that already have one say "they were worth the old price of \$10.00 and I am going to buy another!" Get one before they are all gone!!

E-Mail "Newsletter:" Oregon Section AEG will not send a "Paper Copy" of the newsletter to those that the E-mail address reaches unless they request the it. If you don't get the newsletter E-mail and want it that way please send me your E-mail address and I will add you to the list. This will save the Oregon Section significant costs in postage etc. To get on the E-mail list contact: Dave Michael at dmichael@odf.state.or.us

AEG Homepage: check it out: <http://www.aegweb.org>

The Board of Geologist examiners: 707 13th. St. SE, Suite 275 Salem, OR, 97301
Phone (503) 566-2837, Fax (503) 362-6393 e-mail: osbge@open.org
contact **Susanna Knight**, Administrator for assistance with Board issues.

The Awards Committee: requests your help in announcing that nominations are now being accepted for 2001. The Awards Committee considers nominations for the following awards (for complete information, please consult the AEG Directory or website):

1. Douglas R. Piteau Outstanding Young Member Award – This award is presented to a Member or Associate Member who is age 35 or under, and has excelled in one or more of the following 3 areas: technical accomplishment, service to the Association, and service to the engineering geology profession.
2. Claire P. Holdredge Award - This award is presented for a publication by a Member(s) within the past 5 years that is judged to be an outstanding contribution to the engineering geology profession.
3. Floyd T. Johnson Service Award – This award is presented to a Member for outstanding active and faithful service to the Association over a minimum of 9 years. Board members are not eligible until 1 year after leaving office. Nominations must be validated via endorsement by 3 Members having different Section affiliations. This award is not necessarily conferred annually.

The deadline for nominations to be considered for awards in 2001 is March 30, 2001. Please send nominations to Bill Cole, AEG Awards Committee Manager, c/o Cotton, Shires and Associates, Inc., 330 Village Lane, Los Gatos, CA 95030 (or to bcole@cottonshires.com).

If you have NEWS items that you would like to include, please contact or E-mail Dave Michael – newsletter editor at dmichael@odf.state.or.us

ASCE Congressional Fellow Report

December 2000

If I've ever been in a highly charged environment, it's this month on the Hill. Political crowds, chanting, armed with signage and even a donkey, outside the U.S. Supreme Court hearings on December 1 and 11th were spilling out into the streets. My office, a stone's throw away from the highest court, was twice disrupted by a noisy parade led by the Reverend Jesse Jackson. But, finally, the country has determined a new president, a new Congress, and the 106th Congress adjourned in mid-December. For the time being (there is always buzz about Senators dying or being appointed U.S. Cabinet positions), the 107th Senate will be split 50 to 50 (with VP-elect Cheney as the tie breaker), which holds great promise for our (democratic) office.

Networking was the highlight for this month. Early in the month, we had many meetings (some of them informal) and briefings. These involved: Commerce to better understand the terrorist threat on the reliability of the Nation's infrastructure, Majority Leader Trent Lott's staff on military engineering issues, EPA on the Clean Water Act and Superfund issues, the President's Council on Environmental Quality on building livable communities, Congressional Research Service (CRS) on food safety, and NASA on GIS-based growth software developments. I participated in the RFK Human Rights ceremony where Senator Kennedy honored this year's recipient, Martin Macwan, who is from India. This event was held in a grand room rich in history, involving the sinking of the Titanic, McCarthy, Watergate and Iran-Contra hearings. I attended an AAAS seminar on alternative medicine and two CRS courses on the federal budget.

I researched topics ranging from invasive species in wetlands (e.g., phragmites) and endangered species (e.g., Stellar sea lions) to comparing the proposed house and Senate legislation (HR828 and S914) on the Clean Water Act reauthorization. We continued our efforts on possible legislation language on smart growth and involved Kennedy's economic development and labor staff. We furthered our research, working with others, such as CRS and the Brookings Institution and attended the last of the National Building Museum's smart growth lecture series.

The later part of the month was filled with holiday festivities. I attended parties hosted by Kennedy's office, AAAS for the current Fellows and at the German embassy. Another event was a small reception on the Millennium Time Capsule, held in the room with the Declaration of Independence and Constitution at the National Archives. The First Lady spoke to us about a few of the selected historic items being stored in the Capsule, which will be reopened the beginning of the next century. Items ranged from Ronald Reagan's contribution of a piece of the Berlin Wall to Ray Charles's sunglasses. We toured the White House and were able to pay our respect to the past civil engineering presidents Hoover and Carter.

Respectfully submitted,

Yumei Wang, P.E.
2000-2001 Fellow

Cordilleran Section, Geological Society of America

Corvallis, Oregon, May 13-15, 2002

GEOLOGY IN THE PUBLIC EYE

Call for Field Trips and Session Topics

The 98th Annual Meeting of the Cordilleran Section, Geological Society of America will be held at Oregon State University, with the Department of Geosciences as host. The site will be the new CH2M Hill Alumni Center on campus.

The meeting will be held jointly with the Northwest Energy Association, the Oregon and Washington chapters of the Association of Engineering Geologists, the Cordilleran Section of the Paleontological Society, and the National Association of Geoscience Teachers.

Field trips will precede and follow the meeting, with a comprehensive field trip guide published by the Oregon Department of Geology and Mineral Industries.

FIELD TRIPS PROPOSED AS OF NOVEMBER 2000

1. Lahars, landslide dams, and flood effects, Deschutes River, Oregon: 3-day raft trip, postmeeting (Jim O'Connor, Gordon Grant)
2. Geomorphology and hydrology of the H.J. Andrews Forest watershed. 1 day (Fred Swanson, Julia Jones)
3. Paleodune age, origin, and archaeology, central Oregon coast. 2 days, overnight in Florence (Curt Peterson, Chuck Rosenfeld, Courteny Cloyd)
4. Petrology and tectonics at a propagating rift in the Oregon Cascade Range: 2-day premeeting, overnight in Redmond (Rick Conrey, Ed Taylor)
5. Bimodal volcanism and tectonism of the High Lava Plains, Oregon. 3-day postmeeting (Brennan Jordan, Martin Streck, Anita Grunder)
6. Active faults of eastern Oregon: 2 days. (Ray Weldon)
7. Landslides at Kelso, Washington, and Portland, Oregon (AEG): 1 day. (Scott Burns)
8. Stratigraphy and tectonics of the Oregon Coast Range (NWEA-AAPG). 2 days (Ray Wells, Alan Niem)
9. Josephine and Coast Range ophiolites, California-Oregon. 2 days. (Greg Harper)
10. Southwest Washington beaches and spits. 1 day. (G. Gelfenbaum)
11. Hydrogeology of Deschutes Basin, an arc-related young sedimentary basin (Dave Sherrod)

SPECIAL SESSIONS AND SYMPOSIA AS OF NOVEMBER 2000

1. Presenting geology to the public in national and state parks (Bob Lillie, Carolyn Driedger)
2. The evolving Pacific Northwest landscape: Geomorphic and ecologic controls, constraints, and conundrums in the Quaternary (Gordon Grant, Steven Lancaster, Shannon Hayes)
3. 30 years of hydrogeomorphic and landscape evolution monitoring at the H.J. Andrews Research Station, western Cascades, Oregon. (Fred Swanson, Julia Jones)
4. Topographic development of the terrestrial Cascadia forearc (Andrew Meigs, Steven Lancaster)

5. Public policy, floods, aquifers, and river dynamics in the Willamette Basin, Oregon (Peter Wampler, Jim O'Connor)
6. Forearc basin development, microplate rotation, and tectonics of the Tertiary Cascadia margin (Ray Wells)
7. Hazards and risks from Cascade volcanoes Britt Hill, Ed Taylor
8. Uplift, erosion, and topography of a steady-state orogenic belt: The Olympic Mountains of Washington (Mark Brandon, Frank Pazzaglia, Sean Willett, Dave Montgomery)
9. New active fault database for the Pacific Northwest (Pat McCrory)
10. Unraveling the Tertiary stratigraphy and structure of the Pacific Northwest: Implications to hydrocarbon occurrence and underground gas storage (NWEA/AAPG theme session) (Jack Meyer, George Sharp, Bob Deacon)
11. Engineering geology case histories: State of the art and state of practice in the Northwest (AEG theme session) (Scott Burns)
12. Coastal processes: Landslides, dunes, wave erosion, and active faults and folds (Curt Peterson, Scott Burns, George Priest)
13. Active tectonics at Cascadia: Geodesy (Herb Dragert, Chris Goldfinger)
14. Active tectonics at Cascadia: Continental shelf and slope and accretionary prism (Chris Goldfinger, Bob Yeats, Bob Embley)
15. Active tectonics at Cascadia: Deformation across the plate margin onshore (Ray Weldon, Gene Humphreys, Mark Hemphill-Haley)
16. Third decadal symposium on the geology of Washington (papers to be published by the Washington Division of Geology and Earth Resources; Eric Cheney, Ray Lasmanis)
17. Symposium on the geology of Oregon in honor of George Walker (Martin Streck)
18. Geographic information science (Dawn Wright)
19. Physical volcanology, petrology, and geochemistry of the volcanic Cascades (Kathy Cashman)
20. Workshop and field trip on hydrothermal gold deposits. (John Dilles, Cy Field)
21. Tertiary biostratigraphy of the Pacific Northwest (Paleontology Society theme session and field trip; Liz Nesbitt)
22. Jurassic ophiolites of southern Oregon and northern California (Greg Harper)

SHORT COURSES

1. 3D seismic: Jack Meyer, Bob Lillie, Seismic Micro Technology: Detailed cross sections, smart contouring, and more
2. Geographic Information Science: Introduction to ArcView; GIS applications in natural resources. Michael Wing
3. Parks and plates workshop and short course. Bob Lillie

Proposals for additional field trips should be sent to Dr. George Moore at OSU, mooreg@geo.orst.edu Proposals for technical sessions should be sent to Dr. Andrew Meigs at meigsa@geo.orst.edu

Corvallis in mid-May is delightful, with rhododendrons and azaleas in bloom, good weather for field trips, a new meeting facility, reasonably priced accommodations, and fantastic geology!!

AEG "Oregon Section" - OFFICERS

Area codes are 503 unless noted:

| Position | Name | Telephone | Daytime | HomeFAX |
|-------------|--|-----------------------|-----------------------|-----------------|
| Chair | <i>Charlie Hammond</i> | 452-1100 | 274-1437 | 452-1528 |
| | e-mail: chammond@cornforthconsultants.com | | | |
| Chair Elect | <i>Andrew Harvey</i> | 644-9447 | 617-9486 | 643-1905 |
| | e-mail: aharvey@kleinfelder.com | | | |
| Secretary | <i>Ruth Wilmoth</i> | (360) 944-7397 | (360) 944-6985 | |
| | e-mail: cgvanc@aol.com | | | |
| Treasurer | <i>Warren Krager</i> | 644-9447 | 684-4902 | 643-1905 |
| | e-mail: wkrager@kleinfelder.com | | | |
| Past Chair | <i>Dave Michael</i> | 359-7448 | 357-0238 | 359-9514 |
| Newsletter | " | | | |
| Legislative | e-mail: dmichael@odf.state.or.us | | | |
| Membership | <i>Tim Blackwood</i> | 684-3460 | 236-7792 | 620-5940 |
| | e-mail: tblackwood@carlsontesting.com | | | |
| Programs | <i>David James</i> | 684-3460 | 252-3940 | |
| | e-mail: djames@carlsontesting.com | | | |

MEMBERSHIP

For application forms for Membership in AEG (Member, Associate, Affiliate, or Student), call Tim Blackwood the membership chair at (503) 684-3460 (w). He will also have copies at the monthly meetings. Membership is on a calendar year basis. If you are an AEG member, headquarters will also collect our Oregon Section dues of \$10, which just covers our newsletter costs. If you would like to subscribe to the local newsletter (comes out 9 times a year) without being an AEG member, fill out the form below and mail to Dave Michael. Note: the following form is only for people and organizations that wish to subscribe to the Oregon AEG Newsletter without being members of AEG.

APPLICATION FOR OREGON SECTION, AEG "NEWSLETTER MAILINGLIST ONLY":

NAME _____

AFFILIATION: _____

MAILING ADDRESS: _____

TELEPHONE: _____

Mail form and \$10 to Dave Michael c/o ODF NWOA, 801 Gales Creek Rd. Forest Grove OR 97116

***ANNOUNCEMENT OF OUR NEXT
MEETING***

***JAN. 18, 2001
AEG***

*Dave Michael, Editor
Oregon Section, AEG
c/o ODF NWOA
801 Gales Creek Rd.
Forest Grove, OR 97116*