



Serving Professionals in Engineering, Environmental,
and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

Mar, 2001

VOLUME 01, NUMBER 03

MARCH MEETING:

- Speaker: ***Rex Upp***
AEG President
- Talk: ***“Grade a Road – Go TO Jail
A Saga of the Criminal Justice System”***
- Date: **Thursday, March 15, 2001**
- Times: 5:00 PM Social hour
 6:00 PM Dinner
 7:00 PM Presentation
- Where: ***McMenamins Cedar Hills***
2927 SW Cedar Hills Blvd.
Beaverton, Oregon
- Menu: \$10/Person: Burger Bar
 Must request the Garden Burger
 When making reservation

Reservations: Call David James, 503-684-3460 (ext. 226) by noon Tuesday (3/13/01)
“A reservation made is a reservation paid.” Please call to cancel if you can not attend.
Thank you!

ABOUT THE SPEAKER:

Rex Upp, current President of AEG, holds several degrees in geology and engineering, including a Ph.D. in Engineering Geology from Stanford University. He is licensed as an Engineering Geologist and Geotechnical Engineer in the State of California and has been a consultant in the San Francisco Bay area since 1977. His company deals mostly with hillside residential projects, including new construction, distressed properties, landslide repairs, erosion and drainage problems, and fault evaluations. Rex joined AEG in 1976 while a student at Stanford and has been on the Executive Council since 1995.

ABOUT THE TALK:

“I’m sorry I didn’t call, but I’ve been in jail.” With these words from my client, my saga began into the Criminal Justice System. At about 5:00 p.m. on a Friday in September 1996. Sheriff deputies arrested the defendant (my client) at his place of business. Because of the timing, he could not see a judge until Monday, when he was released from jail. The defendant owns property in the Santa Cruz Mountains in the central Coast Range of California. As a result of road grading done in 1995 and 1996, six charges were filed against him including water pollution, grading without a permit, and grading without protecting adjacent properties. In trial, I testified on the following issues:

- The sandstone and shale that had blocked the highway was geologically different and could not have come from the defendant’s grading.
- The blockage of a culvert and washout of a rural road downstream from the defendant’s property had occurred long before his grading, based on the nature of the material blocking the culvert and the age of the washout scar.
- A slip-out on a highway road cut was not related to diversion of runoff but had a history of failure prior to 1995.
- Virtually all of the sediment that eroded from the defendant’s grading remained in retention basins on the defendant’s property.
- The debris flow that blocked the highway in the El Nino storm of February 1998 was caused by a slope failure in a different watershed from the defendant’s grading.

The jury acquitted the defendant of grading without protecting adjacent property, presumably because there was no measurable off-site damage. The defendant was convicted of the other charges.

Message from the Chair (Mar. 2001)

Last Months Meeting

Dr. Koerner gave a presentation that included some spectacular landfill failures. One unexpected subject that I appreciated in his presentation was a comparison of 2D and 3D stability analyses, and his suggestion that lateral forces in a 3D analysis often account for an estimated Factor of Safety that is 25 percent higher than 2D analysis.

AEG Annual Meeting in St. Louis, Sept-Oct 2001

Consider attending and presenting a paper or poster session at the upcoming Annual Meeting in St. Louis. The deadline for submitting abstracts is fast approaching (see the announcement in last month's newsletter). The meeting is an excellent opportunity to learn more about your profession, broaden your network, and speak out on some engineering geology that you know very well.

AEG Participation with the GSA Cordilleran Section Meeting, May 2002

The Officers of AEG Oregon Section will be getting together at 5:30 pm before this month's March 15 dinner meeting to talk about AEG's participation with the GSA Cordilleran Section Meeting, Corvallis, May 2002. The meeting is in the planning stage, and if you would like to share ideas about programs and field trips, or are thinking about being involved, please join us before our March 15 dinner meeting.

Senate Bill 447 – Exemption of CEG to the PE Rules

In Salem on Wednesday, February 28, at 3:00 pm there was a State Senate Committee hearing on a bill that would affect the practice of engineering geology. Senate Bill 447 would change engineering statute ORS 672.060 and exempt CEG's acting within their certification from statutes governing the practice of engineering. The exemption would be similar to that already in place for architects and sanitarians.

It appears this bill may have been in response to disputes within the realm of the professional overlap between engineering geology and geotechnical engineering. The engineering geologist sponsors of the bill were at the hearing along with some of the industries leading geotechnical engineers to present both sides of the issue.

The bill appeared simple. It would place the responsibility of regulating CEG's solely in the hands of the Oregon State Board of Geology Examiners (OSBGE). However, I understand that the geotech's in attendance informed the Senate Committee that the responsibility of protecting the public's health and safety from poor engineering practiced by anybody, including engineering geologists, is in the hands of the Oregon State Board of Examiners for Engineering and Licensed Surveyors (OSBEELS). This means if a CEG practices within the professional overlap and if questions arise about their work, they could be reviewed by OSBEELS.

The results of the hearing should be available soon. My understanding, from talking with various people who attended the meeting, is that the bill has little chance of continuing, and is likely to end at the Committee hearing. The bill still sounds like a technicality, but then, if passed, it probably would not change the way in which we currently practice engineering geology. Professional overlap issues are being challenged and the concept of Senate Bill 447 will probably be sent back to OSBGE and OSBEELS and a ruling or variation of it may reappear.

Some elder engineering geologists and geotechnical engineers that have been practicing for many years in the State of Oregon have told me that they are comfortable with the way the two professions have been working together. The flurry of activity regarding the overlap over the past couple years with the building code, community ordinances and legislature makes me wonder what the long term repercussions would be if both geologists and engineers had tighter statutes and a definitive line between their professions.

Washington Section and Engineering Geology

Ted Hopkins, Shannon and Wilson, Seattle, and Chair of the Washington Section AEG wrote a message for his section's Feb/Mar 2001 newsletter covering some of his observations on the professional relationship between engineering geologists and geotechnical engineers. I thought it meaningful; therefore, with Ted's permission, I am including a copy of it in our newsletter.

Association President Visiting Oregon Section

Rex Upp is anticipating meeting the Oregon members at the March 15 meeting. Rex and his wife put on a great California-style barbeque for the Association Board members at his house during the Annual Board Meeting in San Jose. So, I look forward to a good turnout at this month's meeting and a return showing of our Portland hospitality. I missed Rex's presentation on the criminal justice system during the Annual Meeting in San Jose and do not want to miss this second chance.

Charlie Hammond
AEG Oregon Section Chair

MESSAGE FROM WASHINGTON'S CHAIR

We had a very successful January meeting with over 40 people in attendance. Thanks to all who came and helped to make it a success. Dr. Allen Hatheway's talk on Site Characterization prompted me to delve further into the role of engineering geologists in civil design, including historical perspectives on the subject.

I have long felt that geologists have special observational abilities. They have the ability to look at small, isolated fragments of a puzzle and make realistic inferences about the whole. Whereas engineers excel at working with concrete things expressed in black and white terms, geologists excel with abstraction and fuzzy concepts, the gray area between the black and the white.

I recently read Richard Goodman's biography about Dr. Karl Terzaghi. Terzaghi is considered the father of soil mechanics and one of geotechnical engineering's most outstanding practitioners. The biography referred to Terzaghi's appreciation for geologists and the importance of observation in civil projects. Terzaghi himself had a strong interest in geology; his first publication was a translation of a book about field geology and, at his death, he was working on a book about engineering geology. Terzaghi also had an appreciation for the importance of understanding geologic processes. In 1955, he wrote "The geological origin of a deposit determines both its pattern of stratification and the physical properties of its constituents.... Therefore, the knowledge of the relation between physical properties and geological history is of outstanding practical

importance.”

In my casual research, I came across numerous writings that discussed the role of geology in the field of engineering. In 1929, C. P. Berkey, a geologist, said that the role of the engineering geologist is to “discover, warn and explain” without taking on the responsibilities of the engineer. A geologist can be compared to a crime detective because both use inductive reasoning out of necessity. Geologists use inference because they are faced with only a small fraction of information about a problem at hand. An engineer, however, makes use of experiments and mathematics and may thus look askance at inference. J. R. Schults and A. B. Cleaves, in their 1955 book *Geology in Engineering*, wrote “The engineer, if he is wise, will employ a geologist more for the inferences he may be able to make than for his factual knowledge. The facts are more or less open to everyone; worthwhile inferences can be made only by the experienced specialist.”

Geology has not always been valued in the field of engineering as indicated by the necessity of several great geotechnical engineers to expound upon its importance. Ralph Peck wrote in 1973 “Geology should be used to greater advantage. We deal with geological materials, yet geological techniques, geological reasoning, and the implications of geology are rarely utilized to maximum advantage.” Robert Legget delivered the 13th Terzaghi Lecture in 1977. He spoke about the continuing neglect of geology in geotechnical investigations. I do believe that some improvement has been made since that time, but that much of what they wrote still holds true today. Engineering geology is not utilized to its maximum advantage in civil design and construction.

During my career as an engineering geologist, many people have asked me to explain what I do in my profession. I often quip that engineers are great at solving problems; the engineering geologist makes sure that the geotechnical engineer is solving the right problem. Not too dissimilarly, J. D. Henkel wrote in 1982 that geotechnical engineers have “sophisticated analytical and numerical methods for the solution of almost any problem provided that [they] are able to make the correct fundamental assumptions.” I believe that, through our observational skills, engineering geologists help the engineer to make the correct fundamental assumptions.

Ted Hopkins
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AEG • AIPG • 2001
ASSOCIATION OF ENGINEERING GEOLOGISTS
INSTITUTE OF PROFESSIONAL GEOLOGISTS
Geology: Central to Society's Needs
JOINT ANNUAL MEETING - 44th AEG • 38th AIPG
St. Louis, Missouri -- Hyatt Regency Union Station Hotel
"Gateway to the West"
September 30-October 7, 2001



CALL FOR TECHNICAL PAPERS AND EXHIBITORS

Come and enjoy all that the St. Louis Area has to offer!
**AEG•AIPG•2001 features short courses, field trips, technical sessions, symposia,
and fun stuff!**
Find your way to St. Louis in 2001 !!

Abstract submittals due May 1, 2001

E-mail preferred: meetings@aeg.tamu.edu
Or submit your abstract on AEG's Web Page:
www.aegweb.org, Annual Meeting
Or mail with disk to:

AEG•AIPG•2001 c/o Julie Keaton
130 Yucca Drive
Sedona, AZ 86336-3222
(520) 204-1553
Fax: (520) 204-5597

Technical Program Topics

Engineering & Environmental Geophysical Case Histories
Environmental Practice in EPA Regions V & VII
Geologic Solutions to Transportation Concerns:
Highways & Waterways Groundwater Remediation
Karst Remediation
Midwest Geologic Hazards: Recognition & Risk Management
New Madrid Seismic Threat
Case Histories in Engineering Geology
Transportation Engineering Geology
Groundwater Investigations
Coastal and River Engineering Geology
Environmental Investigation & Clean-Up

(Abstract must not exceed 250 words and must include author's full name, company name, and company address below the title of the paper. We prefer that authors use Microsoft Word. Please include your daytime telephone number. See sample abstract submission form on AEG's Web Page: www.aegweb.org)

Committee Chairs

General Co-Chair (AEG): Larry Rosen, lcr@shanwil.com
General Chair (AIPG): John Howard, jthoward@theitgroup.com
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Professional Development: John Bognar, lbgstl@netscad.net
Symposia: Paul Santi, psanti@umr.edu
Short Courses: Karl Finke, nrfinkk@mail.dnr.state.mo.us
Teachers Workshop: Martha Kopper, mkopper@ene.com
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Student Coordination/Logistics: Jeff Cawfield, jdc@umr.edu
Field Trips: Duane Kreuger, dtk@geotechnology.com
Sponsors: James H. Williams, jhwms@marktwain.net
Exhibitors & Meetings Manager: Julie C. Keaton, meetings@aeg.tamu.edu

CONFERENCE ANNOUNCEMENT

“Geologic Hazards in Utah”

April 12 and 13, 2001

State Capital Auditorium

Salt Lake City, UT

Evaluating and Reducing Geologic Hazards in Utah: Practical Information for Geologists and Engineers. The conference targets practicing professional geologists and engineers and will highlight the latest techniques in geologic-hazard assessment and reduction. It is principally a technical conference, but land-use planners and regulators should also find it interesting and applicable to their roles in reviewing geologic-hazards reports and permitting development. Invited speakers will cover earthquake topics on Thursday, April 12, including ground shaking, liquefaction, surface faulting, and building code issues. On Friday, the emphasis will be on landslides, debris flows, rock falls, avalanches, and dams. Each day will conclude with a panel discussion of the invited experts to address questions from the audience regarding technical issues as well as issues of acceptable risk. Conference chairs are David Simon (Simon-Bymaster, Inc.) for AEG and John Wallace (IGES) for ASCE. The organizing committee includes Bill Loughlin (AEG, Kleinfelder), Steve Bartlett (ASCE, U of U), Gary Christenson (UGS, USSC), Darlene Batatian (UGA, Salt Lake County), and David Marble (ASCE, DWR).

Webpage. <http://www.users.qwest.net/~ssbartlett/geohazutah.htm>.

Program. A program summary is provided as follows:

Day 1. Earthquakes (April 12)

- Session 1. Ground shaking; Design criteria
- Session 2. Liquefaction assessment
- Session 3. Quaternary faults
- Session 4. Response spectra and building codes

Day 2. Landslides, Debris Flows, Rock Falls, Avalanches, And Dams

- Session 1. Landslides
- Session 2. Rock falls and case histories
- Session 3. Debris flows and Avalanches
- Session 4. Planner's perspectives

Registration. A registration form can be downloaded from the webpage. Registration fees are:

Full Symposium Registration (non-student) = \$135

One-Day Registration (non-student) = \$75 (must specify day)

Full Symposium Student Registration = \$35 (meals included)

All registrations include abstracts and complementary continental breakfast and lunch, plus break beverages. Full registration also includes complementary conference portfolio. All registrations must be prepaid. Confirmation will be limited to the first 125 paid registrants. **Register today!**

Corporate Sponsors. *The Organizing Committee is seeking corporate sponsors to help assure the success of the conference. For more information please contact Dave Simon at Dskimon@aol.com or 801-943-3100 or John Wallace at john@igesinc.com or 801-521-1800.*

Proceeds from the conference will benefit the AEG and ASCE scholarship funds

AEG CALENDAR

- Mar. 15 AEG Oregon Section Meeting
Speaker: Rex Upp AEG President
Cedar Hills McMenamins
- Apr. 18 AEG Oregon Section Meeting
Wednesday Speaker: Bob Watters, Jahns Lecture
 “Realism in Volcano Hazard zonation:
 Does Geoengineering Help Provide
 A More Accurate Assessment”
Lucky Lab, Portland
- May 17 AEG Oregon Section Meeting
Speaker: Larry Pierson
TBA
Old Market Pub

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 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](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).

Legislative Concepts, House Bills and Geologists: If you read the Oregon Geologist Examiner, published by OSBGE, you might remember the Legislative Concepts (now House Bills) about removing “Professional” from the registered geologist title (House Bill 2197), complaint processing (House Bill 2106), and giving a geologist lien rights upon land or structures (House Bill 2107).

The committee reviewing HB 2197 has only heard from geologists that do not want to remove the word “professional”. If you think that it would be less confusing if the word “professional” was removed from statute (HB 2197), contact the committee chair: Rep. Jerry Krummel [Dist 27, Portions of Clackamas and Washington]. Mr Krummel’s phone number is (503) 986-1427 and email is krummel.rep@state.or.us

House Bill 2106 is well into the approval process.

Committee review of HB 2107 has not heard from anybody. Without citizen involvement, this bill will not be approved!!! If you think we should have lien rights, contact the committee chair: Rep. Tim Knopp [Dist 54, Portions of Deschutes and Klamath]. Mr. Knopp’s phone number is (503) 986-1454 and email is knopp.rep@state.or.us

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

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:

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	e-mail: djames@carlsonstesting.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

Mar. 15, 2001
AEG

*Dave Michael, Editor
Oregon Section, AEG
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801 Gales Creek Rd.
Forest Grove, OR 97116*