

Serving Professionals in Engineering, Environmental,
and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

Oct. 1998

VOLUME 98, NUMBER 10

OCTOBER MEETING:

Speaker: Dave Zimbleman Ph.D., Consulting Geologist

Title: *"Edifice Failures of Cascade Volcanoes"*

Date: Thursday, October 15, 1998

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

Where: The Old Spaghetti Factory
715 SW Bancroft
Portland, OR 97201
(503) 222-5375

Menu: \$10 The dinner includes: Spaghetti with ½ meat sauce and ½ mizithra cheese, plus Salad, bread, ice cream, and one non-alcoholic beverage. If you require a vegetarian meal, please call DNA at (503) 228-7718 to arrange

Reservation: Call the receptionist at David Newton and Assoc., (503) 228-7718.

Background on speaker:

Dave Zimbleman:

Ph.D., University of Colorado, 1996: "Hydrothermal Alteration and its Influence on Volcanic Hazards-Mount Rainier, Washington, A Case History"

20 years professional experience geologic mapping, alteration, and geochemical studies in Cascade Range, Rocky Mountains, and Great Basin

Recently applied methodologies and concepts from mineral exploration studies to stability analyses at active stratovolcanoes, including studying alteration and edifice stability at many of the active Cascade stratovolcanoes and participating in a new volcano hazard assessment at the highest volcano in North America, Pico de Orizaba (Mexico, 18,410')

Abstract:

Results from field and remote-sensing geologic mapping, geotechnical, geochemical, and geophysical studies can assist with volcanic hazard assessment and mitigation efforts. For example, an understanding of the geological and geotechnical characteristics of hydrothermally altered and structurally weakened zones in volcanic edifices allows for hazards and risks to be assessed locally within the edifice, i.e., they can be assigned within sectors of the volcano as opposed to being assumed to occur equally distributed about the volcano. Many active stratovolcanoes show heterogeneous distributions of elements that control edifice stability, for example faults, fractures, dikes, areas of hydrothermally altered rock, and areas affected by pressurization effects due to an active magmatic or (and) hydrothermal system. This non-uniform distribution of geologic elements that control edifice stability results in the volcano having relatively "favorable" and "unfavorable" sectors for important volcanic hazards. Thus, risks from hazards such as directed lateral blasts (e.g., Mount St. Helens, 1980), moderate-sized, relatively frequent debris avalanches (e.g., Little Tahoma Peak, Mount Rainier, 1962; west and east sides of Mount Adams, 1997); and large, infrequent debris flows (e.g., Osceola Mudflow, Rainier, ca. 5600 ybp) can be assessed locally, rather than as a whole, on the edifice. At this time, our level of understanding of the geologic controls on edifice stability are best for Mount Rainier and examples of the multidisciplinary nature of the work and the results to date will be given. Additionally, more preliminary results from on-going studies at several other Cascade volcanoes (Mount Hood, Adams, St. Helens, Baker, and Shasta) will be presented, where non-uniform geologic controls of edifice stability also appears to be important.

Message from the Chair:

I would like to say thanks to all of you who have worked so hard to make our section such a pleasant and successful group. We certainly stack up well next to the majority of the sections in AEG. I will report on the Board of Directors meeting (National AEG) held after the 41'st Annual meeting in Seattle.

At the National meeting when accepting the "Floyd T. Johnston Service Award" John W. Williams stated the "...It's the people." His point was for all the technical reasons that AEG is important what makes it really what it is is the people. I would like to echo John's comments to you the members of the Oregon Section of AEG. We have a really great spirit here now and I think every single member should be very proud of not only our profession, but our section and it's work.

We are growing at a rate of nearly 25% increase per year in regular members and 150% per year in student members. That alone is phenomenal. We have tackled some difficult and important tasks in the recent past with real success.

The future looks very bright for this section. We are still forming this year's programs and at this time can not list all the talks and authors, but hopefully next month that will clear up and be documented.

If you have any comments toward the way(s) in which this section can be more service to the members, please contact me in whatever is the easiest way for you. The whole purpose of AEG and the section is to serve the members, so help the group by providing you perspective!

Thanks again,

Dave Michael, Section Chair

Board of Director's Meeting Report:

The Board of Directors of National AEG meeting was held on Sunday October 4 and Monday October 5, 1998. I represented the Oregon section as a new Board Member.

There are 25 sections with Chair's that represent them as Board Members. There are 5 Executive Council members (Sec., Treas., Vice-Chair, Chair and Past-Chair) plus the Executive Director and the National Meeting Manager. This makes for a rather large group. There are typically two meetings per year one after the annual meeting and a mid-year meeting in April. There is also a business luncheon at the annual meeting at which time the new officers and board members are introduced and welcomed.

I met all of the Board Members and really enjoyed the different perspectives due to the different locations. This is really a fine group of geologists with the purpose of furthering the goal of the Association of Engineering Geologists.

After the call to order and roll there was a "President's Comments and Introductions." The new President is James H. May. In his "President Elect's Plans for 1999" he mentioned the tragic loss of Norm Tilford and the interim executive director selection of Chris Mathewson. This was clearly a very difficult time for the Executive Council and all of AEG lost a great leader. The national office was sold and all of the contents were moved to College Station onto the campus of Texas A&M University. This is a temporary location while the association prepares for the move to Denver in 2001. Ensuring that this transition goes smoothly is James May's primary task. There is a relocation committee headed by Debbie Tilford to work on this project. James May is a research hydrogeologist and sees it as his job to insure that the cutting edge technology is transferred from the research lab to the field. He has worked on a sub-committee to look at ways to strengthen our sections. He stated that the sections are the foundation of AEG. He believes it is his responsibility to seek out sections that are having difficulties and see what help can be provided. James is interested in recruiting more hydrogeologists into AEG. He believes "...the best ground-water people are engineering geologists." And he "...doesn't think we are getting our fair share of the market." He is also "...going to be working with John Williams to keep students a priority." His remarks ended with the hope to keep AEG moving ahead.

In trying to pass the "Proposed Bylaw Changes" I got a feel for how hard it might be to reach agreement with a Board this size. We all went back to our rooms that night and read the slightly revised version in our packets and passed it the next day!

At the end of the first day of the meeting "Past President" Eldon Gath presented "restructuring of the Board" to the group. This consisted of a slide show presentation that highlighted several concerns that had been identified during his period of service to the Board. Basically Eldon proposed to replace the "consolidated sections" with affiliated sections (chartered). He thought this would release sections from AEG restrictions and free them to pursue individual paths. There would be a "House of Delegates" that would meet once per year and elect board members (7 people) to make up the board with 5 officers (same as now). The end result would be a more efficient Board (smaller) and more freedom for sections. This idea was met with considerable concern and many Board members were opposed to such radical change. However the concerns that Eldon raised seemed very important and all agreed to work on the "problems."

There was a workshop session the next day that focused on his comments and attempted to consider the proposal. The final result of the workshop was the forming of a small sub-committee to study the problems that were listed and structure of other organizations. It appears likely that the problems that Eldon brought up could be solved without reorganization of AEG. However this topic will be discussed further in the mid-year meeting and perhaps more. I am on that sub-committee and will be keeping you informed of the status of the subject. I would like to get some comments from you on the idea.

Short news items:

1999 National Meeting in Salt Lake City: Yes it's early but make plans to attend. We have had two great meetings in a row and this one will be number three!

Membership Chair: Tim Blackwood has volunteered to be the new membership chair. He has met with Ed Sterns and received the paperwork. Tim works for Geo-Engineers and can be reached at (503) 603-6663 at work.

Oregon AEG Section 13th largest in US! We have 117 members in the Oregon section, up 17 from last year!!! That makes us the 13th largest section in AEG. The student chapter at PSU has an additional 29 members, which is up from 10 the previous year. It makes them the 6th largest student chapter in AEG. Congrats!

AEG office moves: The national office of AEG has officially moved from Massachusetts to Texas A & M. The move went smoothly and things are going well with Chris Mathewson at executive director in 2001 AEG national will move to Denver as plans are today.

Pacific Northwest Mining and Metals Conference April 11-13, 1999 in Portland at the Doubletree at the Lloyd Center. The organizers of this conference would like to have us participate in this conference. Our two groups combined with the GSA group of Portland State to put on a fine meeting in the spring two years ago at the same place call Dave Michael 359-7884 or David James 252-3940 if you have interest and or questions.

Southern Oregon Meeting? We have had some calls about a meeting in Medford, Roseburg or Eugene? Last year we had a super meeting in Roseburg and there was talk of having three meetings each year in the southern part of our state. We think some one may be has stepped forward and will organize the meeting. We just need to shore up some details (ok so may be that is a little optimistic but we have a possible leader!) We will publicize it in the newsletter. Call Dave Michael if you have input or questions.

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

National Earth Science Week: October 11-17. It has been proclaimed by the U.S. Senate that this week is special for geologists!! Got any ideas what we can do to promote our profession?

ASBOG Exam: Portland State University Geology Department is now doing a review course for the ASBOG state exam. Call the department at 725-3022 for more information. The spring exam will be March 19th, 1999 and cutoff for applications is February 1, 1999. Contact Ed Graham in Salem at 503-362-2666 for more information.

Geology classes at Portland State in the fall: Classes start at PSU on September 28th. Graduate level courses that geologists might be interested in taking are listed below. If you have any questions, call Scott Burns at 725-3389. It is easy to take courses for those who are not enrolled in programs.

- 1) Groundwater Geology, G543, TTh, 10:00-11:40, Andrew Fountain, CH 69
- 2) Clay Mineralogy, G518, MWF, 12:45-13:35, Cummings, Chs69 & lab F, 14:00-16:00
- 3) Regional Geology, G553, MW, 16:40- 18:30, Cummings, CH s17
- 4) Geomechanics, G595, Tth, 12:20-13:59, Cruikshank, CH s69
- 5) Environmental Remote Sensing, Geog 582, MWF, 10:15-11:20, Fountain, CH 418
- 6) Geographic Information Systems, Geog 588, Tth, 16:40-18:30, Vrana, CH 250
- 7) Geotechnical Design, CE444, MW, 8-10 AM, Dr. Staff, SB2 155
- 8) Advanced Hydrology, CE 565, MW, 14:00-15:50, Koch, SB2 238

Now available at Portland State: Graduate Certificates in Engineering Geology, Environmental Geology, Hydrogeology, and Hydrology. These certificates are between a BS and an MS degree. They take only 18 hours of graduate work in the subject matter and have no thesis with them. Most of the courses are in the evenings. Call Scott Burns for more information: 725-3389.

Board of Geologist Examiners the new address and phone numbers for the Board is:

Board of Geologist Examiners
726 Hawthorne Ave. NE
Salem, OR 97301
Phone: 503 362-2666
Fax: 503 362-5454
New "Web Site Address" WWW.OSBGE.ORG

"AEG - OFFICERS"

1996 - 1998

(* - means area code 541)

(N.M. - means National Meeting)

Position	Name	Telephone		
		Daytime	Home	FAX
Chair Newsletter	Dave Michael “	359-7448	357-0238	357-4548
Chair-Elect	Charlie Hammond	452-1100	274-1437	452-1528
Secretary	Diane Murbach	538-8352	538-8352	538-8353
Treasurer	Monte Murbach	228-7718	538-8352	228-7781
Past Chair	Scott Burns	725-3389	692-9618	725-3025

MEMBERSHIP

For application forms for Membership in the National AEG, call Tim Blackwood the membership chair at (503) 606-6663 (w). He will also have copies at the monthly meetings. Membership is on a calendar year basis. If you are a national member, they will collect our local 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 a national member, fill out the form below and mail to Monte Murbach. Note: the following form is only for people and organizations who wish to subscribe to the Oregon AEG Newsletter without being members of the national AEG.

APPLICATION FOR LOCAL MEMBERSHIP IN OREGON SECTION, AEG:

NAME _____

AFFILIATION: _____

MAILING ADDRESS: _____

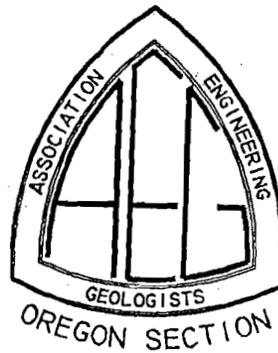
TELEPHONE: _____

Mail form and \$10 to Monte Murbach, David Newton & Associates, 1201 SW 12th. Ave. Suite 400, Portland, OR 97205.

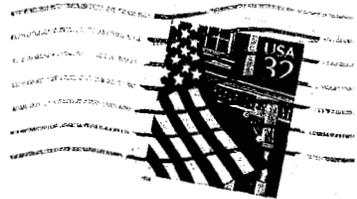
ANNOUNCEMENT OF OUR NEXT EXCITING MEETING

OCT. 15, 1998

AEG



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OCT 10 1998

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