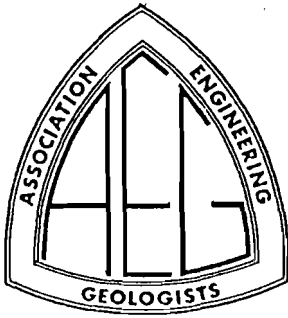


PLEASE ROUTE QUICKLY



Serving Professionals in Engineering, Environmental,
and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

Nov. 1996

VOLUME 96, NUMBER 11

NOVEMBER MEETING:

Speaker: Doyle Wilson, Ph.D. Candidate
Dept. of Geology, Portland State University

Title: "New Developments in the Geology of the Tualatin Basin"

Date: Wednesday, November 20, 1996

NOTE THE DATE CHANGE
"WEDNESDAY NOT THURSDAY"

Times:

| | |
|----------|-------------|
| 6:00 PM: | Social Hour |
| 7:00 PM: | Dinner |
| 8:00 PM: | Talk |

Location: Busters Barbecue, Banquet Room
11419 SW Pacific Highway
Tigard, Oregon

(Located on the north side of highway 99 at I-5)

Menu: Buffet Style \$10.00
Do not call in choice to AEG, just pick up your choice
In the buffet line at the meeting

Choose 1 of 4 of the following barbecue meats:

1. Beef Brisket
2. Pork Spare Ribs

3. Fresh Turkey Breast

4. Beef Ribs

Choose 2 of the following side orders:

* Baked Potato

* BBQ Beans

* Pinto Beans

* Cole Slaw

* Potato Salad

* French Fries

* Green Salad

Drinks: Purchase you own separately either from the bar
Or in the buffet line

Reservations: Call receptionists at David Newton and Associates: 228-7718.

Background on speakers:

Doyle Wilson will be defending his dissertation on the "Neogene Stratigraphy and Sediments of the Tualatin Basin" at the end of November. Doyle has been a graduate student at Portland State for the past four years. He has his first geology degrees from Texas A and M (BS) and Arizona State (MS). He worked for over 8 years for Mobil Oil in basin analysis before coming to Portland. For the past 8 years he has been teaching in the Beaverton School District. This year he is teaching at Merlo Station High School in Beaverton. He has also worked for a couple of consulting firms in the Portland area and DOGAMI during the summers. He is strongly considering returning to consulting after he defends his dissertation. He and his lovely wife Martha have had a wild past two years - they are proud parents of little twin boys who have unending energy!

ABSTRACT

This will be a very exciting meeting, and should have a great turnout. Doyle has made many new discoveries that he will present at the meeting. He will discuss new concepts on the stratigraphy of the Tualatin basin, especially the Neogene sediments. He will talk about two extensive late Pliocene lakes that covered the basin and what possibly formed them. What is the age of the sediments in the basin? He has a good handle on the sedimentation rates of the basin and the provenance of the sediments. He has analyzed over 2400 wells and put them into a database and completed subsurface isopach and contour maps of the basin. Different parts of the basin have different ages. What is the timing of the basin development, uplift of

the Coast Range, the Tualatin Mountains and Cooper and Chehalem Mountains? How are the faults in the basin related? What is the origin of the high phosphate content of the Tualatin River? Is it natural? Why is the geomorphology of the Tualatin River so different from the other rivers of the Willamette Basin? Did the Willamette River ever flow into the Tualatin Basin? How did the Missoula Floods affect the basin and the deposits of the Portland Hills Silt? Is there really a Helvetia Formation? He has used modern computer subsurface mapping, paleomagnetic dating, seismic lines, palynology, mineralogy, and over 50 e-logs of wells to put together a very interesting story of the basin. He will relate the development of the basin to the Portland and north Willamette basins. All of these ideas are aimed at getting a better understanding of the geology so we can develop better groundwater models for the basin. Come join us and hear Doyle unlock many new secrets of the Tualatin Basin. This is a must program for anyone doing work in Washington Country or tectonic work in the region.

Message from the Chair:

Message from the Chair:

Things are really active with our chapter! Our book is moving into high gear and I like the articles that are coming in! Be sure to read about the book update below, especially if you are an author with a paper still outstanding! I have also put a list at the end of the newsletter of the officers of the chapter with a partial list of the National Meeting Committee. It gives telephone numbers and hopefully next month I will add E-mail addresses.

The schedule of speakers is beginning to shape up for the year. I am sorry that we moved the meeting this month from Thursday to Wednesday, but one of the firms in Portland is having a big event on the evening of the 21st and would have taken five plus members away from the meeting that night. Therefore, we moved the meeting to Wednesday. Next month Audrey Eldridge of DEQ and our state board of geology registration will be talking about the possibility of registering hydrogeologists. After a brief presentation she will be asking for input from our membership on this important topic. Mei-Mei Wang helped us get Brian Atwater to talk in April on some of his latest findings related to the subduction earthquake story. We will also be having the Richard Jahns Lecturer, Dr. David Rogers of Berkeley, coming through Portland in March. He gives a super talk on the failure of the St. Francis Dam in southern California.

Last month we had a great meeting at the Spaghetti House in Portland. After everyone found the restaurant, we had a lovely dinner for \$10 and a fun and interesting talk on landslides in Spain. The turnout of 32 people was welcomed! Again, many thanks for Diane Murbach for helping find the site for last month's meeting and also this month's meeting. We are trying a new place that is inexpensive, centrally located, and has a nice room for the meeting - Buster's Barbecue in Tigard. It sounds super.

I would like to make a special invitation to all of you to come to the meeting this month. We have a great speaker, you will get to vote on the new National Award for Engineering Geology, you get to meet the new officers of the Student Chapter, and you get to try some good barbecue! As we enter into the holiday season, most of us will be working very hard on our case histories book and our upcoming national meeting. Good luck to all in this very busy year!

Scott Burns, Section Chair

AEG Case Histories Book:

We had a meeting of the Editors on November 5 at PSU. Things are beginning to take off! We have added Kim Marcus, one of the original members of the book editor staff, to help Gunnar with Chapter 2. It is great to have Kim back on the book! The next editors meeting will be December 10th at PSU from 5:30 - 6:30 PM. So far we have 13 of 74 articles turned in. This is the month we are pushing for the articles to be submitted.

I have finalized everything with the publisher, Stuart Hoffman, of Star Publishing in Belmont, California. He has done AEG books before and does a quality job. He is working on one right now which should also come out at the same time as our book. We are going to be printing 500 copies in the first run, and our chapter has no monetary input necessary to get the book off of the ground. We will also get royalty checks that will equal about 5-10% of the sales so there is a chance we can make some money from the book. The book will be hard bound, double column on glossy paper. He is very committed to doing a quality job for us. Below are the deadlines needed to get the book out in time for the Fall national meeting in Portland:

- | | | |
|----|-------------------|--|
| a) | December 16, 1996 | First Drafts of all Papers turned into chapter editors (paper copy only needed) |
| b) | January 6, 1996 | Chapter Editor Review Articles due |
| c) | February 28, 1997 | Final versions of papers returned to Scott Burns (paper copy and disk in preferably Word or WordPerfect along with camera ready figures) - we will send in the whole package to the publisher then; This is the DROP DEAD DEADLINE! |

The publisher will do all of the typesetting and will send the galley proofs back to the authors from March to June. The printing will be done in the summer. December and January will be the month of making reviews and then revisions on the papers. I will be on sabbatical after December 10th so will be working full time on the book for January, February and the last of December to make sure it happens and that we have quality that we are proud of!

Scott Burns, Editor

Short news items:

- 1) **We need photos:** This year we get to have the cover photo for the AEG membership directory and the AEG News about the national meeting in Portland. AEG has asked for photos. Here is your chance to get a favorite photo that you have published. Contact Scott Burns, 725-3389 for details. Bring a slide or print to the next meeting. They need these this month. We also will need cover photos for the AEG Case Histories book.
- 2) **The student chapter has elected new officers.** We will introduce them at this month's meeting. David James is the new President. David got his BS degree from California State University at San Bernadino and is working on his MS at Portland State in either slope stability or geomorphology. He replaces Tom Braibish who graduated with a BS degree and is now working on an MS in Geotechnical Engineering at PSU. Bill Burns is the new Vice President. He has a BS from Florida State University and is working on his MS at Portland State in slope stability. Bill replaces Barry Sanford who is finishing up his MS thesis on the West Tidewater landslide in the Coast Range. Both David and Bill worked for the forest service this summer mapping landslides in the Cascades. The student chapter will be having a recruiting pizza party soon.
- 3) **Special Vote at this month's meeting:** For the national meeting this coming year in Portland, the local committee is entitled to nominate an engineering geology project in the region for the top engineering geology project of the year for the United States. The organizational committee has selected the West Side Light Rail Tunnel Project as its nomination. We will vote on it at the meeting. If anyone has another project to propose, please present it at the meeting. A special presentation of the award to the project will be made at the opening ceremony of the meeting next fall. We will have all of the dignitaries from Portland at the meeting.
- 4) **Check out AEG on the WEB:** <http://geoweb.tamu.edu/aeg/>

List of Officers for the Oregon Section for 1996 - 1998: (* - means area code 541)

| Position | Name | Daytime | Home | FAX |
|---------------------|-----------------|-----------|-----------|-----------|
| Chair | Scott Burns | 725-3389 | 692-9618 | 725-3025 |
| Chair-Elect | Dave Michael | 359-7448 | 357-0238 | 357-4548 |
| Newsletter | " | | | |
| Secretary | Charlie Hammond | 452-1100 | 274-1437 | 452-1528 |
| Treasurer | Diane Murbach | 228-7718 | 538-8352 | 228-7781 |
| Past Chair | Sue D'Agnese | *957-3595 | *673-1797 | *957-3604 |
| N.M. Treasurer | " | | | |
| Membership | Ed Stearns | 661-0462 | | |
| N.M. Tech. Sessions | " | | | |
| N.M. Chair | Gary Peterson | 635-4419 | 697-3100 | 635-1430 |
| N.M. Field Trips | T & D Kuper | 228-7718 | 638-9722 | 228-7781 |
| N.M. Publicity | Ken Walsh | | 652-6107 | 833-6844 |
| N.M.Short Courses | Mei-Mei Wang | 731-4100 | | 731-4066 |

97 Annual Meeting Update

From Gary Peterson, AEG 97 Annual Committee Chair

I have been meeting and discussing tasks at hand with each of our subcommittee chairs to prepare for the AEG 97 meeting. Our years of pre planning are paying off, and we have an **excellent program** laid out, **enthusiastic, talented committee people** working on the tasks, and now we just need to **make it happen!** As you have read, the New Jersey Annual Meeting was less than a success (at least financially) I am convinced that with our planning efforts to date, and with plenty of publicity and promotion, we can have a banner meeting for AEG, much like the years of past. I've included here our current schedule of major events, and the Call for Papers that we have published.

Key work areas at the present time are

1. assembling a comprehensive list of potential exhibitors, both nationally and regionally.
2. Contacting and confirming speakers and leaders for the various symposium, workshop and field trips that are planned.
3. Nomination and submittal of the Engineering Geology Project of the Year Award, which you will vote on at the November Meeting.
4. Budget development for each event.

A lot of work has been done, with lots left to do. We need help in certain areas to keep us moving: The following committes need help:

Publicity,

including working on a Web Page for the meeting and making sure we have internet exposure, as well as assuring we get exposure at regional meetings

Convention Services / Motel coordination

Transportation coordination / Planning

Special Events and Guest Activities

Engineering Geology Project of the Year Award Planning / Coordination.

Environmental oriented Workshops and Symposium

A group planning meeting is scheduled for:
4:00pm December 10, 1997 @ PSU Geology
Agenda includes completion of detailed committee budgets.

**Converging on
Cascadia**



PORTLAND, OREGON
Serving Professionals in Engineering, Environmental and Ground Water Geology

First Call for Technical Papers and Exhibitors

For The 1997 AEG Annual Meeting
Hosted by the Oregon Section

Paper and Poster Presentation Topics:

| | |
|--|------------------------------------|
| Coastal Engineering | Landslides and Slope Stability |
| Environmental Investigations | Seismic Hazards |
| Field and Laboratory Testing | Stream Restoration |
| Ground Water Investigations / Modeling | Fluvial Geomorphology |
| Water Supply Studies | Transportation Geology |
| Landfill Technology | General Engineering Geology Topics |

Topics other than the above suggestions will be considered. Presentations based on case histories are encouraged. Presentations will be limited to 20 minutes each. Poster session will be provided during the exhibitors luncheon. Abstracts should be no longer than 250 words should be sent to the address listed below.

**Abstract Submittals Due May 15, 1997, E-mail preferred: aegjuliek@aol.com
or mail to:**

**AEG'97 c/o Julie Keaton
130 Yucca Drive
Sedona, AZ 86336-3222
(520) 204-1553 Fax (520) 204-5597**

Exhibits:

Exhibitors spaces will be provided for at least 28 booths (more space available, located in Prime Exposure Ballroom. Each booth will include a table and chairs, pipe and draped 8x10 space. A brief description of the exhibit and any special requirements should be sent to the exhibitor committee chair shown below. We can accommodate small vehicle sized equipment.

Committee Chairs:

Gary Peterson, Chairman, Annual Meeting, inquiries and general information
(503) 635-4419 E-mail: garyp@squier.com
Ed Stearns, Chairman, Technical Sessions
(503) 661-0462 E-mail: 73564.3251@compuserve.com
Dave Michael, Chairman, Exhibitors and Sponsors
(503) 359-7448 E-mail: dave.l.michael@state.or.us

AEG 97 40th Annual Meeting, September 30-October 4, 1997

Gary Peterson
CHAIR

C. Ed Stearns
TECHNICAL PROGRAM

Mel Mel Wang
SHORT COURSES

Sue D'Agnese
FINANCE

Tom Kuper
FIELD TRIPS

Dave Michael
EXHIBITORS

| | Short Courses/Workshops | | Main Meeting Sessions Not shown | | | | Board of Directors Mtg. | | |
|--|-------------------------|------|--|---|---|---|--|--|----------|
| | Sat | Sun | Monday | Tuesday | Wed. | Thursday | Friday | Sat. | Sun |
| Field Trips <i>Tom Kuper, Chair</i> | 9/27 | 9/28 | 29-Sep-97 North Oregon Coast Landslides <i>Burns</i> | 30-Sep-97 Columbia Gorge, Dams, rockfall, historic hiway | 1-Oct-97 | 2-Oct-97 LRT Tours | 3-Oct-97 LRT Tours p.m. | 4-Oct-97 St. Helens <i>Pringle</i> / <i>Lowell</i> | 5-Oct-97 |
| Short Courses <i>Mark Darienzo, Chair</i> | | | Seismic Geology <i>Coppersmith</i> | Seismic Hazard Mapping <i>Mabey</i> | Teachers Workshop <i>J. Blueford</i> | Geoscience/ Internet <i>Cruickshank</i> | Geoscience/ Internet <i>Cruickshank</i> | Oregon Coast/ Seismic <i>Atwater</i> | |
| Symposium <i>Mei Wang, Chair</i> | | | Application, Risk Based Assessment, <i>Blankinship</i> | Rock Slope Analysis & Design <i>Long, Watts</i> | Eng-Geology Award Presentation | Earthquakes <i>Wang</i> | Weathered Rock (all day) <i>Santi</i> | | |
| Special Events Morning | | | Loss Reduction | Geoscience GIS <i>Lashlee</i> | Bldg MAX LRT <i>Peterson</i> | Det. vs. Prob. Seismic Assessments <i>Larson</i> | Environmental Topic: Well Head, Brownfield, RB | BOD Mtg | BOD mtg. |
| Daytime | | | | | Banquet Luncheon | Corporate Luncheon | Exhibitors Lunch | BOD Mtg | BOD mtg. |
| Evening | | | | Ice Breaker w/ Exhibitors | Zoo Theme Night | Banquet & Murder Mystery | Brew Bus Pub Tour | | |
| Exhibition Hall | | | | Setup 2-6 pm Open 6-9 | Open 8-5 | Open 8-5 | Open 8-4, Breakdown 4-6 | | |
| Guest Activities | | | | | Pittock Mansion Tea | Cannon Beach | | | |



TO: Susan Steele Weir, President

DATE: September 24, 1996

FROM: Gary Peterson, 1997 Meeting Chairperson

SUBJECT: Report of the 1997 Annual Meeting Committee
to the Board of Directors, 1996 Annual Meeting,
East Brunswick, New Jersey

You'll have a ball at AEG '97! The Oregon Section Annual Meeting Committee has been planning our meeting over the past 3 years, and we have developed an excellent schedule of activities for AEG's 40th Annual Meeting in Portland, Oregon. The following summarizes our successes and challenges. Attachments to this memorandum provide background detail on our current level of planning, scheduling, and budgeting. Our schedule, though not completely finalized, is pretty well defined, and significant changes are not presently anticipated.

It was a pleasure to tour the hotel with you and Julie during your Portland visit. I'm sure you agree that our host hotel, the Hilton, looks great after its \$25 million remodel. It will be a great site for our meeting! In addition, negotiating our contract for the Hilton before the remodel has provided a significant advantage over a later attempt to book this space. Since the remodel, new conventions scheduled for 1997 are getting room rates at \$30 to \$40 more per night than our agreed price (\$115. single and \$125. double occupancy). Combined with benefits like the free parking, we have a very good agreement with the host hotel.

Concern exists, however, regarding the room block guarantee. We are still in a negotiating position on the room block guarantee, which has a target of 1009 room nights, with penalties incurred when our block falls below 807 room nights. We have been concerned all along about this issue. I think Bob Tepel has truly "seen the light" and provided us all with a significant insight into the room block game. I have met with the hotel in the last 2 weeks - we agreed to resolve this issue following the 1996 annual meeting, after I can discuss the issue with the Board of Directors. The hotel's advice with respect to the issue Bob has brought to us, is to avoid Hilton's toll free national reservation desk. The operators will not check beyond the first computer screen that shows the block used. However, the onsite hotel clerks will provide better service, and are willing to try to fit you into a room block. To assure that we maximize our room block agreement, the following actions have been, or will be taken:

selected a hotel which has very few nearby, lower cost rooms;

- encouraged Saturday stay-over by provided a program that extends the convention week towards both weekends;
- predicted our room usage according to past predictions, although our actuals have fallen short (probably due to the practice Bob Tepel has identified);
- continued a dialogue with the Hilton regarding this issue to make the best, mutual agreement.

We have been reluctant to change our predictions until now, primarily because We don't want to lose the full meeting space that we now have promised us. We have the complete facility, and don't want to give

AEG 97 40th Annual Meeting, September 30-October 4, 1997

Gary Peterson
CHAIR

C. Ed Stearns
TECHNICAL PROGRAM

Mel Mei Wang
SHORT COURSES

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FIELD TRIPS

Dave Michael
EXHIBITORS

that up yet.

Our talented and enthusiastic annual meeting committee has had several productive meetings. A list with telephone numbers and addresses is attached. Also, during this week you have had the chance to talk with several of the committee. We are revising and developing the work scope for each committee. The October 1994 Draft AEG Annual Meeting Planning Guide has proved to be a great tool to all. We are using it as our standard reference.

Julie Keaton has joined our committee and has provided significant help, guidance and support. Julie is taking on tasks that will be critical over the next few months. Her work with exhibitors and in handling the receipt of abstracts and similar is greatly appreciated by our committee, and we believe will be highly beneficial to our meeting.

Budget preparations are underway for the meeting on a committee basis. Detailing and integrating these committee budgets is a key upcoming task that Sue D'Agnese is leading. Presentation of our meeting budget will be made at the April BOD meeting. Currently, we are short of key data to make the budget usable to you. We will be following guidelines and examples provided by the meeting guide and past history.

Last spring we requested \$2500. seed money be set aside in the upcoming fiscal year budget for our meeting planning. We have just begun to tap into that resource. We have set up a bank account, and will begin our account tracking using Quicken, to facilitate budgeting and budget tracking. Thus far, we have minimized our mailing, printing and artwork costs. At this time, we do not have a fixed budget request for funding until the meeting. However, we request a fund of \$2500. Additional monies be set aside, should we have needs that must be met. Considering that we are soliciting exhibitors early, we hope to generate some cash flow to keep us solvent until the meeting.

As mentioned before, environmental geology is currently poorly represented on the annual committee staff, which reflects the Oregon Section meeting attendance. Developing technical sessions, short courses, field trips and symposia for this area of practice has been more difficult than for traditional engineering geology. We solicit the help of national committee's to help carry the ball in this area. Are there any short courses or special training that could be conducted?

Our committee has the bulk of the work ahead. We feel we have the basic form for the meeting worked out, now the work is in the details. My personal challenge is to delegate the work effectively to our committee members and volunteers. We will be having regularly scheduled committee meetings to work through the issues during the next year to carry on the business of the annual meeting.

Thank you for your support, and we look forward to 1997. Please contact myself or Sue D'Agnese regarding this correspondence. Sue can be reached at (541) 957-3595. Thank you for your support, and we look forward to 1997.

FUTURE "AEG" MEETINGS:

- November 20: Doyle Wilson, PHD student, PSU, "Geology of the Tualatin Valley" (tentative)
- December 21: Audrey Eldridge, DEQ and member of the state board "Certification of Hydrogeologists in Oregon??"
- January 16: Roland French, "Electromagnetic Groundwater Investigations"
- February Date to be announced - combined meeting with ASCE
- March 20: Open
- April 17 Brian Atwater, "Probabilities of a Great Cascadian Earthquake in the Next 100 Years - the Latest Updates"

MEMBERSHIP

For application forms for Membership in the National AEG, call Ed Stearns who is our membership chair at 661-0462 (h). He will also have copies at the monthly meetings. Membership is on a calendar year basis. Starting this year, 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 Charles Hammond. 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: _____

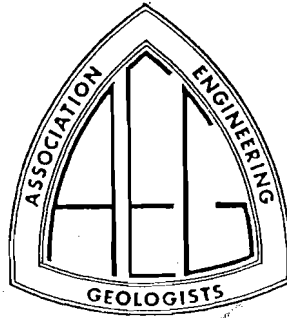
TELEPHONE: _____

Mail form and \$10 to Charles Hammond, Cornforth Consultants, Lincoln Building Suite 111, 10250 SW Greenburg Rd., Portland, OR 97223.

ANNOUNCEMENT OF OUR NEXT EXCITING MEETING

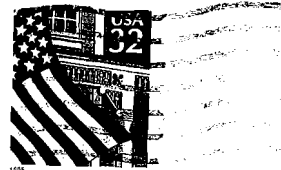
November 20, 1996

AEG



Dec 10
Next Meeting
4-30 psc

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



NOV 12 1996

Hammond, Charles M.
Cornforth Associates
10250 SW Greenburg Rd #111
Portland, OR 97223-5460