



Serving Professionals in Engineering, Environmental,
and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

SEPTEMBER MEETING:

- Speaker:** Mark Darienzo, Earthquake Program Coordinator
Oregon State police, Salem
Roger Redfern, Consulting Geologist, Portland
- Title:** "Dramatic channel changes on the Clackamas River
due to the Great Flood of 1996 and floodplain gravel
mining"
- Date:** Thursday, September 18, 1997
- Times:** 6:00 PM: Social Hour
7:00 PM: Dinner
8:00 PM: Talk
- Where:** McMenamins Brewpub
2927 SW Cedar Hills Blvd.
Beaverton, Oregon
- Menu:** \$10/person; Chicken Extravaganza, High Pasta,
Communication Breakdown Burger, Cheeseburger,
Garden Burger
- Reservation:** Call the receptionist at David Newton and Assoc., 228-7718.

Background on speaker:

Mark Darienzo has been a consulting engineering geologist for the past year, but has recently taken on a new position with the Oregon State Police and is in charge of their earthquake programs which is run through their planning and training section. He has a Ph.D. from Portland State University and along with Curt Peterson came up with the recurrence intervals of subduction earthquakes along the Oregon coast using coastal marsh stratigraphy. Roger Redfern has been a consulting engineering geologist here in Portland for over 20 years. He has an M.S. degree from Portland State University. Both have been active in AEG here in Oregon.

Abstract:

The main channel of the Clackamas River, one to two miles upstream from Barton Park, has changed dramatically over the past 60 years, either naturally by river processes or artificially by river gravel mining operations. Since the thirties, the channel has migrated westward. However, since the 1970's the channel has been somewhat fixed owing to a dike built to protect the mining operation. The dike also closed off an active side channel that acted as a flood bypass channel during the 1964 flood. The gravel operation is located in the floodplain and the mining company extracted and processed former point bar deposits. Several pits, some filled with water, are all that remain. In February, 1996 the Pacific Northwest was hit by one of the biggest floods this century. As a result of the flood, the main channel of the Clackamas River above Barton Park was captured by the gravel pits. The capture occurred as a result of westward erosion by flood waters, the entrance of the river into the gravel pit just upstream of the most upstream tip of the dike, and the headward erosion for some distance upstream after the river entered the pit, as evidenced by the creation of a ten foot cutbank. After the capture, the river no longer flowed down the former channel. On closer examination, the new channel is elevationally well below the old channel; therefore, the change appears permanent (until the next big flood!). An oxbow lake was also formed but subsequently disappeared as the water percolated down into the underlying gravels of the old channel..

Message from the Chair:

I am so excited! The book will be coming out soon. The national meeting is really looking great and things are all falling into place. And, my 1983 van with 166,000 miles on it is still running!! This has been a busy summer for everyone in our section, even though we have not had any meetings.

First of all, I would like to mention a word about the AEG case histories book. It is at the printer right now. A small glitch arose this week and has delayed publication so it does not look like it will be done by the national meeting. It will come out October 10th. We will have a mockup of the book (cover and printed pages) at this month's section meeting along with order blanks. Because of the delay with the book, we will have our awards ceremony at our November meeting along with the dedication of the book and a good old fashioned signing party! Congratulations to all of the authors! More about the book later.

I am so proud of our national meeting committee! Gary Peterson gets a solid round of applause for a super job in organizing the meeting! About 335 people have preregistered so far! The field trips are almost full and the short courses have good numbers. Remember, last years national meeting barely had 200 attendees. We might expect over 500 people in Portland - could be the largest national AEG meeting in a long time (The Sacramento meeting a couple of years ago had about 500 people, but about 150 of those were with the California groundwater association). Ed Stearns has done a wonderful job with the program! Sue D'Agnese and Charlie Hammond have really got the money situation under control. Diane Murbach has been working non-stop with publicity. Mei-Mei Wang has a wonderful slate of symposia with some really big names. Mark Darienzo has really put together a nice teacher workshop and some very interesting short courses. Tom Kuper has orchestrated some very popular field trips - already over 170 people are signed up for the field trips!!! Many thanks to the GSOC friends who are running the spouses program! The list goes on and on - many, many thanks to all of you who have worked so hard!!! The meeting is going to be a great success!

I encourage all of you to come to this month's kickoff meeting of the year!! Roger and Mark has a very interesting presentation on the Clackamas River! I know that you will enjoy it. Come early and reconnect with friends over a brewski! We tried to get back into the popular Buster's Barbecue, but another group has the room for the third Thursday. We won't have a meeting in October - we felt that everyone will be burned out on meetings after the national meeting so we will get going again in November. I am looking for speakers - give me a call if you have a nice presentation! We got bad news that Don Deere, the national Richard Jahns Lecturer had a heart attack so won't be able to make it to Portland. We also need to schedule another meeting in southern Oregon to follow up on last years very successful meeting in Roseburg. Our last meeting in May was a great success with over 40 people hearing president Eldon Gath talk about AEG and also seismic hazards along the San Jacinto Fault.

My life is beginning to get back to "normal" after a nine month sabbatical. I spent the first five months working on the book and putting in 80 hour work weeks. It got done and made me happy! I took off to New Zealand for a month of research and a change of pace - loved it! My family came downunder and we traveled for a month spending time in New Zealand, Australia and the Great Barrier Reef, and also the Cook Islands. I loved Rarotonga and Aitutaki! I also got to teach in Switzerland again for Stanford - I always look forward to those two weeks of hiking in the Alps every summer. Now, I am back home preparing for courses for the fall, the national meeting, and our new AEG year in Oregon. I also have assumed a new part time hat as Associate Dean of the College of Liberal Arts and Sciences in addition to teaching in geology.

Let's have a great year! Sign up for the national meeting if you haven't already done so! See you on the 18th!

Scott Burns, Oregon Chair

AEG Case Histories Book:

It has been so much fun to see all of the galley proofs of the book. The typesetter really worked overtime and did a nice job. The book is 692 pages long with 69 articles by 82 authors. We turned the book into the publisher in May completely and the last galley proof came to us in August. It went to the printer (in Ann Arbor, Michigan) two weeks ago. The glitch with the printer has been with the scanning equipment. The book really looks nice!! I will have a mockup of the book with the cover at the September meeting. The cost of the book is super! The normal price will be \$69.95, but the publisher will have a special price at the national meeting of \$59.95 which includes shipping. That is a great price by today's standards for a book that is about 700 pages! I will have order blanks at the September 18th meeting. The book will be hard bound and will be shipped in a high quality box. It is a must for all desks of practicing geologists, especially those practicing in Oregon and the Northwest. It is a very nice mix of engineering geology, groundwater geology, and environmental geology. Congratulations to all of the authors who met their deadlines!

Scott Burns, Editor

**40th ANNUAL NATIONAL AEG MEETING, IN
PORTLAND:
SEPTEMBER 29 - OCTOBER 3, 1997**

The meeting is almost here!! It is hard to believe. 335 have preregistered so far and that is great! Gary Peterson and his committee have really put together a wonderful program of 4 concurrent technical sessions, super field trips, workshops, and symposia. The evening and luncheon activities will be lots of fun and very informative. If you have not signed up be sure to do it soon! All members should have received the abstracts and program book which really looks nice. Call Scott Burns (725-3389) if you need an abstract book and signup sheet. Special thanks to Julie Keaton who has been running the registration from Arizona - she has really done a perfect job and has taken a lot of work off of our shoulders. She is so organized!

Note - Give a Talk: Ed Stearns tells me that there are six slots for presentations. Six people have backed out of the their talks and Ed needs to replace them. If you were wanting to present a paper and never got around to submitting an abstract, call Ed at 661-0462. He will find you a place!

Be sure to come to the opening ceremony. We will be giving the national award for the nation's top engineering geology project to the West Side Light Rail Tunnel. It will be fun! It is Wednesday morning.

Short news items:

1) Check out AEG on the WEB: <http://geoweb.tamu.edu/aeg/>

2) Check out the Web Page for the Student Chapter at Portland State:

<http://www.geol.pdx.edu/AEG>

3) Need talks for this year: Are you interested in giving a talk to AEG on some work you have done? We have six slots open for next year and am looking for volunteers. Maybe some of you authors might be interested in giving a talk on your paper if it is not presented at the national meeting. Good luck! Contact Scott Burns, 725-3389.

LOCAL NEWS :

Mark Darienzo has a new job with the Oregon State Police running their earthquake program. Mark has a perfect background for this job!

“AEG” CALENDAR:

September 18:	Mark Darienzo and Roger Redfern, Channel changes on the Clackamas River due to the great flood of 1996 and floodplain gravel mining
September 24'	Last National AEG Committee Meeting - at Hilton Hotel
September 29- October 3	National AEG meeting at the Hilton Hotel in Portland
November 20	November Oregon Section Meeting
December 18	December Oregon Section Meeting
January 15	January Oregon Section Meeting
February 19	February Oregon Section Meeting
March 19	March Oregon Section Meeting
April 16	April Oregon Section Meeting
May 21	May Oregon Section Meeting
Sept. 21-25	International AEG Meeting in Vancouver, B.C.

FALL COURSES OFFERED AT UNIVERSITIES OF INTEREST TO APPLIED GEOLOGISTS: Classes run from September 29 - December 5, 1997

Portland State University: Call 725-3022 for more information

Geog 582	Environmental Remote Sensing	TuTh, 14:00-15:40 , Fountain
Geog 588	GIS	TuTh, 16:40-18:30, Vrana
Geol 543	Groundwater Geology	TuTh, 10:00 - 11:40, Johnson
Geol 560	Morph & Genesis of Soils	TuTh, 17:15-18:30; F 15:00-17:00, Burns (how to use soil as a tool for geologists/env. scientists)
CE 510	Rock Slope Engineering	Tu, 18:00-20:40, Pfeiffer
CE 546	Numerical meth in Geotech Eng,	TuTh, 14:00-15:40, Smith

University of Oregon: Call 541-346-4573

Geog 510	Remote Sensing	TuTh, 11:00-12:20, Murphy?
Geol 562	Neotectonics & Quat. Geol	MWF, 13:00-13:50, Weldon

Oregon State University: Call 541-737-1201

Geo 551	Environmental Site Planning	MWF, 11:00-11:50, Jackson
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"AEG - OFFICERS"

1996 - 1998

(* - means area code 541)

(N.M. - means National Meeting)

Position	Name	Telephone		
		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

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 Diane Murbach, David Newton & Associates, 1201 SW 12th. Ave. Suite 400, Portland, OR 97205.

ANNOUNCEMENT OF OUR NEXT EXCITING MEETING

SEPTEMBER 18, 1997

AEG



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



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