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Serving Professionals in Engineering, Environmental,  
and Ground Water Geology

OREGON SECTION

# **NEWSLETTER**

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The Official Newsletter of the Oregon Section Association of Engineering Geologists

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## **DECEMBER MEETING:**

Speaker: Terry Jacques, Geo-Tech Explorations, Inc.  
Tualatin, Oregon

Title: "Direct push technology with emphasis on the geoprobe -  
an excellent tool for environmental soil and  
groundwater explorations"

Date: Thursday, December 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:***

Terry Jacques is an active member of our section of AEG. He has a BS degree from Portland State University, and he has been working with Geo-Tech Explorations for three years. Direct push technology is becoming more and more important today in sampling.

Terry is an expert in the use of the geoprobe. He will be explaining all of its uses and advantages and ease in sampling!

## ***Abstract:***

: Direct push machines push tools and sensors into the ground without the need of drilling to remove soil to make a path for the tool. The first geoprobe was built for the EPA in 1988. Since that time, geoprobes have assisted in site investigations and remediation projects across the United States and several countries overseas. They have great applications in the environmental and engineering geology areas. Geoprobes can be used to perform soil core and soil gas sampling, groundwater sampling, soil conductivity and contaminant logging, grouting, and materials injection. They are used in UST investigations and removals, Brownfield assessments, remedial investigations /feasibility studies, RCRA facility assessments, corrective actions, property audits, Superfund sites, remediation projects, research, engineering geology and other hydrogeological studies. Its uses are as diverse as its users.

# *Message from the Chair:*

We had a super meeting last month with 41 people coming to hear Sue D'Agnes speak on the landslides in southern Oregon. Sue had super slides and I think that everyone enjoyed being back together after a two month hiatus! I invite you to come to this month's meeting which will have two objectives. First, we will present the new AEG case histories book with a special dedication to Jasper Holland plus awards to the chapter editors and 14 awards to outstanding papers in the book. Second, Terry Jacques will do a short presentation on geoprobes which are being used more and more in our industry.

This past month all of the sections received some bad news from the national AEG. Our new executive director, Dr. Norm Tilford, is missing in an airplane accident. Norm is a professor of engineering geology at Texas A and M University and disappeared on November 13 while enroute from College Station to Van Horn, Texas. He was flying in his airplane to meet students for a weekend field trip and encountered bad weather and has not been heard of since then. The largest search and rescue operation in Texas history by the Civil Air Patrol has been going on since then and they have come up with nothing. The search has shifted to the ground in the Llano basin, his last suspected position. It is a terrain of highly irregular narrow canyons and gullies and a dense cover of live oak, juniper and scrub brush. Obviously because of the time since his disappearance, hope for his survival has dimmed. Our prayers go out to Debbie his wife.

Chris Mathewson, another professor at Texas A & M, has been appointed the interim director of AEG. The board has been communicating by email on this. Norm had many big plans about relocating the national office, but all of those plans are on hold. We will keep you informed on this each month.

The first week of the new year I plan to get the executive committee together for our section to plot out our direction for the rest of the year. We have spent so much energy over the past two years on our national convention and the book so now it is time to focus on our profession locally. Our section is very healthy so we want to take advantage of that fact and take us to new levels!

I personally would like to send out seasons greetings to all of you and wish you a Merry Christmas and a Happy New Year!

Scott

# AEG Case Histories Book:

This is the last month that you can purchase the book for \$59.95 plus \$6 for shipping and handling. Starting January 1, 1998, the price will go up to \$79.95. We have put another order form at the end of this newsletter. Last month, the xeroxing left the address off of the order form. Sorry! The address of Star Publishing is: Star Publishing, P.O. Box 68, Belmont, California 94002-0068. They also have a 1-800 number to order directly using a VISA card. It is 1-800-852-6226

The first copy of the book will be at the meeting for all of you to see this month. The book is being printed right now in Ann Arbor, Michigan. The book will be shipped to each of you who ordered it in the next two weeks. It will have a 1998 copyright date on it. The reprints for the authors will be mailed at the same time. Be sure to come to this month's meeting to see who gets the awards for top papers in the book.

**Awards Ceremony:** The AEG case histories book is being printed right now. We will have one copy at the meeting which will be presented to Jasper Holland, one of our two people who we dedicated the book to. You will get a chance to see the book, hot off the presses! The copies that all of you ordered will be mailed the following week! Authors will also get their reprints at that time.

At this meeting we will also have an awards ceremony. I have special certificates to give to the chapter editors who played a large part in the development of the book. I also will have special certificate awards for the best papers in the book.

These are given by the editor, and two articles have been chosen from each chapter for these awards. Come to the meeting to see some of the outstanding authors get awards and see the new book!

***41th ANNUAL NATIONAL AEG MEETING,  
1998 IN SEATTLE, SEPTEMBER 26 - 30***

Please plan on attending the 1998 annual meeting in Seattle. Let's have a great Pacific Northwest turnout!

PREPUBLICATION ANNOUNCEMENT AND SPECIAL DISCOUNT

ENVIRONMENTAL, GROUNDWATER AND ENGINEERING GEOLOGY: APPLICATIONS FROM OREGON

Publication: October 1997. Hardcover.

Dr. Scott Burns, under the auspices of the Association of Engineering Geologist, selected 82 authors from 27 consulting firms, nine government agencies, and two universities to prepare papers for this special comprehensive compendium. In this volume, you will find 69 articles organized into 8 chapters covering major concerns in applied geology. In this collection of case histories and review articles, each author describes a problem and demonstrate how they solved it.

Summary of Contents by Chapter:

- 1. Geologic and Physiographic Provinces. Describes the physiographic provinces of the state along with the geologic history.
2. Practice. This chapter offers a lawyer's perspective on geologic practice in Oregon, including registration practices and important regulations a geotechnical practitioner should know. Additional discussion of professionalism in engineering geology.
3. Facilities. A fascinating collection of articles - the largest chapter - including how geology and geologic processes are factors in the siting of dams, buildings, and hospitals. Discusses the important evaluation of dams for weathering, upgrading to meet new earthquake standards, and evaluating dam structures relative to landslides.
4. Transportation. The application of geology along major transportation routes: highways, railroads, coastal and inland waterways.
5. Geohazards. Three review articles on earthquakes, volcanic, and landslide hazards. Additional articles describe landslide problems, including a comparison of clear-cut and non-clear cut areas in a national forest. Landslides are a hazard worldwide, and these articles offer unique insight into this deadly problem.
6. Planning. Unique coverage of land use planning and environmental protection focusing on mining and ecosystems along the coast, rivers, wetlands and forests.
7. Water Resources. The evaluation and management of water supplies is a crisis worldwide. Portland's famous well field has a large pollutant plume siting above it! Geothermal energy development could threaten water supplies - here's an evaluation from Bend, Oregon. Two articles address issues related to salmon - salmon runs are decline and major recovery programs are being implemented - there is potential impact to salmon when a new navigation lock is constructed and when a dam pool is lowered to aid in downstream migration of salmon.
8. Contaminants. Articles discuss environmental geology case histories. Superfund sites. Fertilizer contamination. How to investigate and mitigate organic solvents in the soil and groundwater. Problems that occur in very state and in every country! Here are Oregon solutions.

This is not a book of theory. Not just a reference book. You will have a hardcover volume of actual hands-on solutions. Answers to problems. Solutions that will inspire readers to new heights of professional excellence.

SAVE \$20.00 Prepublication orders are being accepted at \$59.95 + \$6.00 shipping per volume.

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**Courses being offered for winter quarter at the state's universities:** The classes begin on January 5 and end on March 18.

**Portland State University:** Call 725-3022 for information on these courses

**Geol 510:** Contaminant Hydrology, Dr. Carl Palmer, TuTh, 16:00-17:50 (This is a new course being taught by Carl Palmer who has moved from OGI to PSU. He is one of the leaders in the field).

**Geol 523:** Computer Applications in Geology, Dr. Ken Cruikshank, MWF, 11:30-12:20; Th, 12:00 - 13:50 Lab

**Geol 541:** Groundwater Modeling, Dr. Ansel Johnson, MWF, 9:00-9:50

**Geol 570:** Engineering Geology, Dr. Scott Burns, MW, 16:30-18:20

(This course is designed to prepare those wishing to take the CEG exam. I use a lot of the materials that are offered in the California review course for the CEG to teach the course.)

**Geog 546:** Water Resource Management, MWF, Dr. Teresa Bulman, 12:45-13:50,

**Geog 588:** Geographic Information Systems, Dr. Rick Vrana, TuTh, 14:00-15:40

**CE 542:** In situ Soil Testing, Dr. Wes Spang, TuTh, 16:40-20:30

**CE 510:** Urban Hydrology, D. Crawford, MW, 18:00-19:40

**CE 541:** Advanced Soil Mechanics, Dr. Trevor Smith, M, 16:00-22:00

**CE 570:** Subsurface Flow and Contaminant Transport: Dr. Shuguang Li, MW, 16:00-17:40

**Oregon State University:** For information on the courses, call 541-737-1201.

**GEO 545:** Computer Assisted Cartography, Dr. Kimerling, MW, 11:00-12:00

**GEO 380:** Earthquakes in the Pacific Northwest, Dr. Yeats, M, 19:00-21:50

**GEO 514:** Groundwater Hydraulics, Dr. Istok, MWF, 15:00-15:50

**GEO 516:** Interpretation of Geologic Maps, Dr. Yeats, F, 9:00-10:50

**GEO 565:** Geographic Information Systems, Dr. Wright, TuTh 11:00-12:00

**University of Oregon:** For information on the courses, call 541-346-4555.

**GEOG 516:** Introduction to Geographic Information Systems, Dr. Kirsh, TuTh, 9:30-10:50

## ***Short news items:***

**Job Announcement:** Principal Executive Geology Supervisor with ODOT: They are seeking an individual with strong leadership skills for a position located in Portland. This person will provide management and direction to the region geology group and its programs and develop and implement strategies for providing engineering geology, hazardous materials and NPDES to ODOT programs. Requires 6 years of experience in supervisions, staff technical or professional level work. This experience must have included at least two years of experience as a project leader, assigning and reviewing work of professional staff (i.e. engineers and engineering geologists) including project responsibility for developing goals and objectives, project evaluation, or monitoring and controlling or preparing a budget.

Applicants must clearly demonstrate experience in subsurface investigations and geotechnical engineering. CEG or experience in hazardous materials and/or water quality preferred. A bachelors degree in geology or civil engineering or related field may be substituted for up to three years of required experience, but will not substitute for two years of specialized experience.

Salary \$3146-4430/month plus benefits. Contact ODOT Recruitment at 503-986-4030 for required application packet.

**AEG List-Serve Forum:** If any of you wish to become part of an internet public forum on engineering geology, follow the directions below. It is open to all members of AEG. You can get the latest updates on Norm Tilford, find out what is happening with the association, etc. If you are interested in subscribing to this free forum, do the following: Send an email to the following address: Listserv@listserve.tamu.edu. The following message in the body of the message: SUBSCRIBE AEG-L First\_Name Last\_Name. Insert your first and last names where applicable.

## ***LOCAL NEWS:***

I got news of three Portland State geology alums who are also AEG members and principals in their local firms. Dave Rankin has opened up the Portland office of Golder Associates and they are located at 4522 SW Water Avenue, Suite 100. Golder is one of the nations largest engineering geology firms and is based out of Seattle. Connie Taylor, the senior managing principal of Hart Crowser in Portland, has been elected president of the board of directors of the Ronald McDonald House of Portland.

Doug Anderson is one of the two engineering geologists left on the Mt. Hood National Forest. He has been shifted from the Sandy, Oregon office to the Hood River office and is running the engineering geology projects on the east side of the forest.

## Report from the Board of Geologist

**Examiners:** If any of you are interested in talking the registration exams, call Ed Graham in Salem at the Board. His number is 503-378-4180. The deadline for signing up for the next exam is January 5, 1998. The RG and CEG exams are both on April 17, 1998. The results of the last exams taken this past fall were as follows: ASBOG Fundamental RG exam: 13 of 16 passed; ASBOG Principles and Practice RG exam: 12 of 15 passed. For the CEG exam, 1 of 2 passed.

## ***“AEG” CALENDAR:***

- |             |  |
|-------------|--|
| December 18 | December Oregon Section Meeting: Awards ceremony for the new AEG Book & Talk on Geoprobes by Terry Jacques   |
| January 15  | January Oregon Section Meeting: Dr. Tom Pierson, Cascade Volcano Observatory, Vancouver, <u>Updated geology and hazards assessment at Mt. Hood</u>   |
| February 19 | February Oregon Section Meeting with ASCE  |
| March 19    | March Oregon Section Meeting   |
| March 25-27 | 33rd Symposium on Engineering Geology and Geotechnical Engineering, University of Reno, Nevada; abstracts are due November 26) - call Scott Burns for further information)   |
| April 16    | April Oregon Section Meeting   |
| May 21      | May Oregon Section Meeting   |
| Sept. 21-25 | International AEG Meeting in Vancouver, B.C. - note - abstracts were due November 1, 1997 for this meeting. If you are interested in submitting an abstract and have not received the forms and information, call Scott Burns for further information. |
| Sept. 26-30 | National AEG Meeting in Seattle  |



# "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
Membership	Ed Stearns		661-0462	

## 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.*

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**APPLICATION FOR LOCAL MEMBERSHIP IN OREGON SECTION, AEG:**

NAME \_\_\_\_\_

AFFILIATION: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

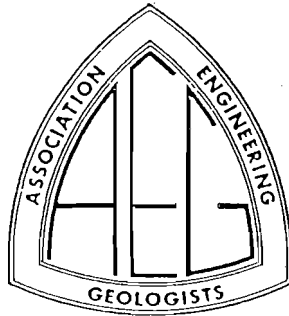
TELEPHONE: \_\_\_\_\_

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

December 18, 1997

## AEG



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



Hammond, Charles M.  
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10250 SW Greenburg Rd #111  
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DEC 13 1997

