



The Official

OREGON SECTION AEG NEWSLETTER

December Meeting Details

Date: Tuesday December 15

Location: Busters BBQ
11419 SW Pacific Hwy

Tigard, OR
6:00 pm Social

7:00 pm Dinner

8:00 pm Presentation

Dinner: BBQ

Attendance is free.

Reservations: mwegner@cornforthconsultants.com with "AEG Reservation" in the subject line or 971-222-2047 by 4pm Thurs. Dec. 10th

There is a \$2 surcharge for those who do not reserve by the deadline.

Upcoming Meetings:
Jan. 19—TBA joint ASCE
Feb. 16—Ralph Soule
Mar. 17—TBA
Apr. 20—Student Night
May 18—TBA



The December Meetings Guest Speaker is Duane Kreuger from Geotechnology, Inc. —Environmental Consulting – Where We’re at and Where We’re Going

Environmental regulations keep changing, partly due to ever-improving technology and partly due to public perception and political climate. Decisions regarding environmental consulting are generally driven by compliance with environmental regulations (federal, state and local), business risk, and concerns regarding public health & the environment.

Dinner available, but not included. Dinners generally priced from \$7 up

Some of the major federal regulations governing environmental projects fall under the jurisdiction of United States Environmental Protection Agency (USEPA) and the Occupational Safety & Health Administration (OSHA). States sometimes enter into agreements with federal agencies on certain environmental issues or they develop their own legislation. Between states, environmental regulations can be very similar (asbestos for example) or they can be completely different (underground storage tanks-USTs.)

Examples of common environmental projects include, Phase I environmental site assessments (ESAs), Phase II ESAs risk-based assessments, asbestos and lead-based paint inspections, hazardous materials surveys, wetlands delineations, noise and indoor air quality surveys, and air emissions permitting and monitoring.

Examples of recent projects will be used to discuss a variety of environmental issues of concern to the environmental consultant. Current and future environmental projects will include such things as regulated spill prevention, control and countermeasures (SPCC) plan preparation, increased focus on indoor air quality, mold and industrial safety, compliance, carbon sequestration and greenhouse gas emissions reduction.

Speaker Bio: Duane T. Kreuger

Mr. Kreuger is the Environmental Group Manager for Geotechnology, Inc. in St. Louis, Missouri, where he leads a team of 14 to assist clients throughout the Midwest with their environmental project needs. Some of his recent projects include: management of environmental consulting services for the Lambert-St. Louis Airport Expansion Program, coordination of several Brownfield assessment and cleanup grants, direction of environmental assessments related to a 7.3 mile extension of the MetroLink light rail transit system and management of over 100 underground storage tank sites for a major oil company client. Duane has been with Geotechnology since the beginning of his career, working in the field and managing various aspects of geotechnical and environmental projects for 17 years. He has been an active member of AEG since 1996, and since then he has served as, prepared guidebooks and served as a co-leader for two Section field trips, served as field trip coordinator for the AEG 2001 Annual Meeting, and has served as co-chair of the Governance Committee from 2003 to 2006. In 2004 he received the AEG Douglas R. Piteau Outstanding Young Member Award. Duane received his bachelor's in Geology from the University of Illinois-Urbana in 1992. He is a Registered Geologist in Missouri and Professional Geologist in Illinois, and he is an Environmental Professional per ASTM 1527-05 and AAI criteria.

*“Keen observation is at
least as necessary as
penetrating analysis”*

Karl Terzaghi

Memorial for Doug Williamson

Douglas A. Williamson passed away during early November. A memorial service for Doug has been scheduled for Saturday, December 12th, at 2pm at the South Hills Assembly of God Church (3195 Hilyard Street) in Eugene, Oregon. <http://www.ag.org>

Doug was one of only 2 Honorary Members of AEG from Oregon. The following excerpt was taken from his induction by Kenneth G. Neal.

Doug devoted his career to the development of professional standards and guidelines for engineering geologists. He spent much of his career developing integrated technical skills in engineering geologists and geotechnical engineers, which lead to reliable, consistent and reproducible results, regardless of the academic background and experience of the practitioners using the methodology. Doug was born on May 2, 1925 in Eugene, Oregon. He served in the United States Navy from 1943 to 1946, during and after World War II. He graduated from the University of Oregon in 1951 with a Bachelor of Science in geology, and completed two additional years of graduate study there.

Doug served as engineering geologist and field supervisor for the U.S. Army Corps of Engineers, Portland District, Foundation and Materials Branch from 1955 to 1975. In 1975, Doug transferred to the USDA Forest Service, Willamette National Forest, where he referred to himself as the "Chief Geotechnical Geologist." Doug trained and mentored many Forest Service Geologists and geotechnical engineers during that period. He retired from government service in 1987.

Doug joined the Association of Engineering Geologists in 1960. He was the first Chairman and a charter member of the Oregon Section of the Association, and served on the Association's Board of Directors from 1965 to 1967. He was active in pursuing legislation which ultimately resulted in the establishment of registration for geologists and engineering geologists in the State of Oregon.

Doug's contribution to the profession were many. One of these included the development of the Unified Rock Classification System (URCS) during his tenure at the Corps of Engineers, but development was not sponsored by the Corps. Doug, with the assistance of Dennis Larson, tested core samples during off-duty hours to develop strength parameters for the Mineral Grain Bonding element of the URCS. The URCS has since been utilized on many damsites, innumerable USDA Forest Service and Soil Conservation Service projects, and by private industry. Doug and Albert E. Teller of Explosives Services, Inc. tied the Mineral Grain Bonding element of the URCS to sonic velocity ranges for impedance calculations. Teller published the ranges in his blasting textbook (Teller, 1984), and has since utilized the URCS in his blasting classes and seminars. Although the URCS had been in existence and had widespread usage since the early 1960s, it was first formally published in the Association's Bulletin in 1984 (Williamson, 1984). It was published a second time in 1988, in ASTM STP 984 (Williamson and Kuhn, 1988).

Doug elected to utilize his talents to develop skills and resources in others, at the ground level, where the work is done. Doug's greatest contributions to engineering geology are represented in the many hundreds of people that he trained and mentored over his 32 years of practice. He taught the essence of the scientific method. He taught an understanding of how to "know what we know," that correctly-developed factual data are superior to subjective, judgmental reasoning.

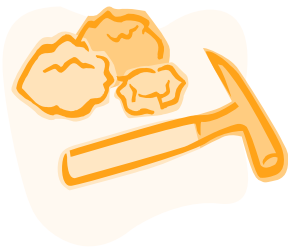
Doug insisted on accurate and complete documentation. He required interpretations and analyses to be based on a quantity of data appropriate for the scale and technical needs of the proposed application. His insistence on excellence made him a standard-bearer for field methods in both the Forest Service and Corps of Engineers. The ultimate result of Doug's philosophy and his efforts in teaching others was to raise the status of the practice of engineering geology in the scientific community.

Doug's role was primarily professional and technical, rather than administrative and political. He preferred to remain out of the limelight; he elected to remain close to the action, in the field. His efforts did not cause him to reap academic accolades, nor to advance up the ranks of the "geotechnical elite." Doug served others in his profession and the profession itself. Doug's efforts have touched many in AEG. The list includes current and past members of AEG's Board of Directors, as well as past Presidents. A true leader serves those he leads; Doug has provided a great service to all engineering geologists and to our profession.





Highest hit and bare earth lidar images can be rendered in 3-D to help land use planners and others visualize topography with much greater detail than ever before. Image of Coquille, Oregon."



New digital map and data series for Oregon released

A new digital map series and a new digital data series have been released by the Oregon Department of Geology and Mineral Industries (DOGAMI).

The new Lidar Imagery Series (LIS) maps are made up of the four quarter-quadrants of a USGS 7.5' topographic quadrangle and each of the 4 map sheets per quad contain 2 map images – one, a highest hit image, and two, a bare earth image. Major streets, cultural features, and water bodies are labeled. The initial release of LIS maps include 10 quads on the outer edges of the Portland metro area.

The new Lidar Data Quadrangle Series (LDQ) is data only to be used by GIS applications. DOGAMI has released 25 USGS quadrangles that cover most of the Portland metro area and a series of both individual and bundled USGS quadrangles along the coast from Brookings to Florence. This includes huge swaths of inland coastal areas as well.

Future LIS and LDQ releases will cover the remainder of the Portland urban area, the Willamette Valley and Medford urban areas, the entire Oregon coast, and numerous other areas around the state. Efforts to collect more lidar data are underway in other parts of the state as well, including the Klamath, Deschutes and Umatilla Basins.

Please go online to see a list of the USGS quads and data that are currently available at: <http://www.oregongeology.org>

All LIS and LDQ series digital publications can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 177, Portland, Oregon, 97232. You may also call NNW at (503) 872-2750 or order online at <http://www.naturenw.org>. There is a \$4 shipping and handling charge for all mailed items. The price for each LIS series CD-ROM is \$30 and includes 8 digital map images on 4 sheets as Adobe Acrobat PDFs. Printed copies of each of the 4 quarter-quadrangle PDF sheets containing 2 images (highest hit and bare earth) are \$25 each and must be ordered separately. The price for each LDQ series DVD-ROM (data only) is \$200.

Job Opportunity: Utah DOT

The Geotechnical Division of the Utah Department of Transportation currently has an opening for a Senior Geologist. Applications for this position will be accepted through December 15. Please help us by sending this announcement to any contacts you have that might be interested. The attached link provides the job description, salary range and application information.

<https://statejobs.utah.gov/JobAnnouncement.jsp?rid=20547>

For more information contact: Keith Brown, UDOT Chief Geotechnical Engineer

office: (801)965-4234, cell: (801) 633-6238

e-mail: kebrown@utah.gov

Message From The Chair

Our next presentation is Duane Krueger. Subject Environmental Consultants – Where We Are and Where We Are Going. Meeting will be held at Buster Barbeque. I realize people do have many time demands but going to sectional meetings does help to support AEG and makes it possible to help support students (future AEG members). For those of

you who show up; Thanks for supporting Oregon Section of AEG.

Also, as some of you know Doug Williams passed away in November. He made many contributions in the practice of engineering geology in the Northwest over his career. He helped standardized logging drill core practices at both the Forest Service and Corps of

Engineers. More of his accomplishments are provided on page 2 of the newsletter

Oregon Section AEG Chair
Dave Schofield



“Keen observation is at least as necessary as penetrating analysis”

Karl Terzaghi



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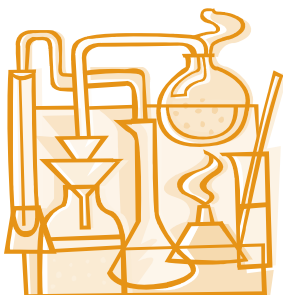
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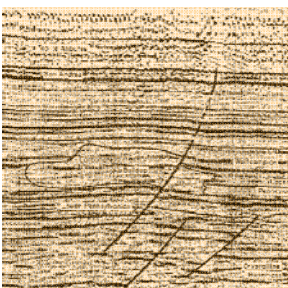
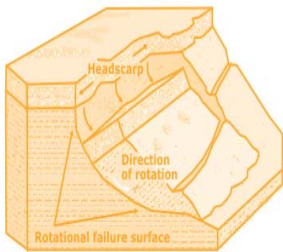
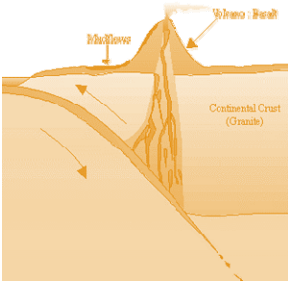
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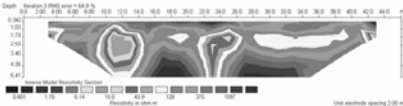
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Depth (meters) 0.000 to 10.000
 0.000 0.200 0.400 0.600 0.800 1.000 1.200 1.400 1.600 1.800 2.000 2.200 2.400 2.600 2.800 3.000 3.200 3.400 3.600 3.800 4.000 4.200 4.400 4.600 4.800 5.000
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Section Officers & Committee Chairs



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Dave Scofield
ACOE
scofield@onemain.com



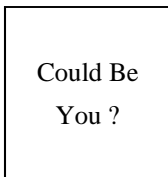
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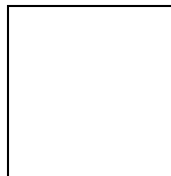
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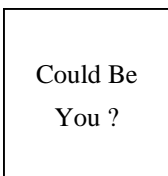
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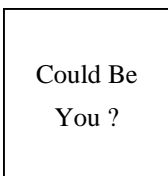
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National AEG webpage: <http://aegweb.org>

The Oregon Section Newsletter

OREGON SECTION AEG NEWSLETTER is published monthly from September through May. Subscriptions are for members of AEG affiliated with the Oregon Section or other Sections, and other interested people who have requested and paid a local subscription fee of \$10.00. E-mail subscriptions are free. News items are invited and should be sent to: Bill Burns, OR Section AEG Newsletter Editor, Oregon Department of Geology, 800 NE Oregon Street, Portland, OR 97232, e-mail: <bill.burns@dogami.state.or.us>, phone (971) 673-1555. Electronic media is preferred. Deadline for submittal is Friday three weeks before each meeting. Advertising: business card \$100/yr; ¼ page \$200/yr; ½ page \$350/yr. Please notify Bill if you have a change to your email or mailing address.

The Association of Engineering Geologists (AEG) contributes to its members' professional success and the public welfare by providing leadership, advocacy, and applied research in environmental and engineering geology. AEG's values are based on the belief that its members have a responsibility to assume stewardship over their fields of expertise. AEG is the acknowledged international leader in environmental and engineering geology, and is greatly respected for its stewardship of the profession.

