



The Official

# OREGON SECTION AEG NEWSLETTER

## February Meeting Details

Date: Tuesday February 16th

Location: Old Market Pub

6959 SW Multnomah

Portland, OR

6:00 pm Social

7:00 pm Dinner

8:00 pm Presentation

Dinner: Pizza and Salad

\$15 Dinner (\$5 Students)

### Reservations:

mwegner@cornforthconsultants.com  
with "AEG Reservation" in  
the subject line or 971-222-  
2047 by 4pm Thurs Feb. 11th

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

## Upcoming Meetings:

Mar. 16—Scott Burns

Apr. 16—Student Night

May 18—TBA

June 1—TBA



## The February Meetings Guest Speaker is Ralph Soule from GeoPotential—Subsurface Mapping Surveys (SMS)

A Subsurface Mapping Survey (SMS) is a Geophysical Survey to detect, identify and map the location of either man made or naturally occurring subsurface objects. The objects include features as small as cracks, voids and rebar in concrete to underground storage tanks, buried waste drums and utilities to larger features such as landfills, contaminant plumes, shallow geologic layers and groundwater. Many fields of study utilize SMSs including geological, groundwater, engineering, environmental, mineral and oil exploration, archaeological, construction, military, forensic, treasure hunting, etc. A wide variety of geophysical surveys can be conducted depending on the objectives of the SMS. These include ground penetrating radar, magnetic, electromagnetic, gravity and seismic. This talk will focus on SMS engineering applications to shallow geology, roads and bridges and utility locating.

## Speaker Bio: Ralph Soule III

I have been a consulting geophysicist for 30 years. After completing my education I worked for 4 years as a consulting geophysicist at EXPLORATION DATA CONSULTANTS in Denver, Colorado. During this period the majority of my experience consisted of consulting to oil and mineral exploration companies. In 1979 I started GeoPotential in Golden, Colorado continuing to consult in exploration geophysics. In 1987 I moved GeoPotential to Gresham, Oregon and started consulting in environmental and engineering geophysics. Since 1987 I have consulted on over 1,000 projects. My clients included private individuals, environmental firms, construction companies, engineering firms and governmental organizations.

To perform environmental geophysics I have developed a MOBILE GEOPHYSICAL OFFICE that allows me to acquire, process and interpret geophysical data on the project site. This both reduces the cost of geophysical surveys and allows for higher quality surveys. Using the MOBIL OFFICE I can perform Ground Penetrating Radar, Magnetic and Electromagnetic surveys. In addition I perform Downhole Video Logging surveys.

With this data I perform SUBSURFACE MAPPING SURVEYS that consist of identifying and mapping the location of shallow subsurface objects that are of environmental or engineering interest. These include underground storage tanks, buried waste drums, utilities, trenches and pits, building foundations, rebar reinforcements, shallow geology, groundwater, contaminant plumes and a variety of other features. For the past eight years I have been conducting mineral and treasure exploration programs in the Philippines through GeoPotential Philippines Incorporated.

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

*Karl Terzaghi*



**SHANNON & WILSON, INC.**  
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

www.shannonwilson.com  
(503) 223-6147  
Lake Oswego, Oregon  
Other offices in Washington, Alaska, California, Colorado, Missouri, and Florida

- Deep foundations
- Ground improvement
- Geohazard studies
- Seismic design
- Retaining walls
- Dewatering
- Revetments
- Value engineering
- Waterfront structures
- Tunnels/shafts
- Trenchless technologies
- Landslide studies/mitigation
- Rock slope design
- Forensic failure studies

Spencer Creek Bridge Foundation Design  
2009  
Beverly Beach, Oregon  
For client H.W. Lochner and owner ODOT

**CASCADE DRILLING INC.**  
FULL SERVICE DRILLING

ENVIRONMENTAL GEOTECHNICAL COMMERCIAL

- Air / Mud Rotary & Rock Coring
- Limited Access and Track Equipment
- Dewatering Wells
- Hollow Stem Auger
- Sonic Drilling
- Direct Push (Probe)
- In-Situ Injection
- Vacuum / Air Knife Services

**CASCADE DRILLING, INC - PORTLAND**  
13600 SE AMBLER RD  
CLACKAMAS, OR 97015  
Office: (503) 775-4118  
Fax: (503) 775-4099  
www.cascadedrilling.com

<b>SEATTLE</b> (425)485-8908	<b>PORTLAND</b> (503)775-4118	<b>SACRAMENTO</b> (916) 638-1169	<b>LOS ANGELES</b> (562) 929-8176
---------------------------------	----------------------------------	-------------------------------------	--------------------------------------

**NGA** Northwest Geophysical Associates

**Geophysical Investigations**

- Geotechnical
- Environmental
- Groundwater

(541) 757-7231 www.nga.com

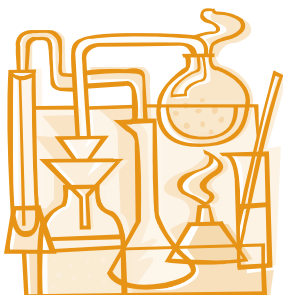
**Geo-Tech Explorations**  
A Division of Boart Longyear Company

**Providing Professional Drilling Services Since 1981**

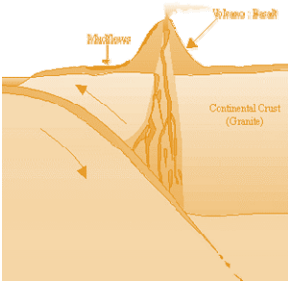
Hollow Stem Auger / Mud Rotary / Air Rotary  
Geoprobe / CPT / Bucket Auger / Cable Tool  
Reverse Circulation / Pump Services  
Well Rehabilitation

**Construction Dewatering Wells  
Environmental Investigations  
Large Diameter Water Wells  
Geotechnical Investigations  
Construction Borings  
Aquifer Tests**

Phone: 800-275-3885 or 503-692-6400  
Fax: 503-692-4759





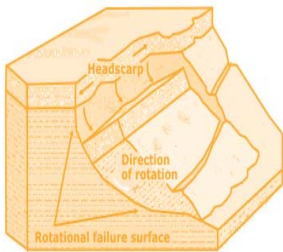


# Western States Soil Conservation, Inc.

*There is no limit to the depths we will go*



Geotechnical and Environmental Drilling Services  
 PO BOX 428 ▪ 3100 Schmidt Lane ▪ Hubbard, Oregon 97032  
 (503) 982-1777 Office ▪ (503) 982-8220 Fax  
 westernstates@centurytel.net ▪ www.westernstatesoil.com



## Thanks For Supporting AEG !

Amec Earth and Environmental, Inc.

Columbia Geotechnical

Cornforth Consultants

Delta Environmental

Geocon NW

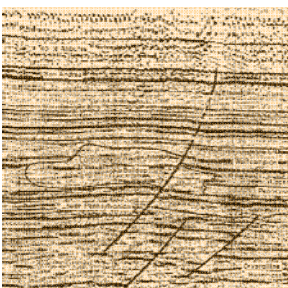
Kuper Consulting

Oregon Department of Forestry

Oregon Department of Geology and Mineral Industries

Parametrix

Portland State University



**GeoPotential**  
ENVIRONMENTAL & EXPLORATION GEOPHYSICS  
 22323 East Wild Fern Lane, Brightwood, Oregon 97011 • PH (503) 622-0154 • FAX (503) 622-0526  
 WEB <http://www.geopotential.biz/> E-MAIL [GeoPotential@geopotential.biz](mailto:GeoPotential@geopotential.biz)


**SUBSURFACE MAPPING SURVEYS**

**GROUND PENETRATING RADAR SURVEYS**

**MAGNETOMETER & ELECTROMAGNETIC SURVEYS**

**GRAVITY SURVEYS**

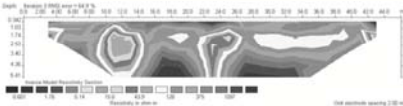
**RESISTIVITY SURVEYS**



MOBILE LABORATORY

**PROJECTS: GEOLOGIC ENGINEERING, ENVIRONMENTAL OIL & MINERAL EXPLORATION, ARCHAEOLOGICAL**

**LOCATE: VOIDS, UTILITIES STORAGE & SEPTIC TANKS FOUNDATIONS, DRAIN FIELDS, WATER WELLS, MONITORING WELLS**



Scale: 1 inch = 100 feet

## Section Officers & Committee Chairs



Chair:  
Dave Scofield  
ACOE  
scofield@onemain.com



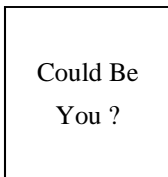
Program Co-Chair:  
Michael Marshall  
Parametrix  
mmarshall@parametrix.com



Legislature Chair:  
Dorian Kuper  
Kuper Consulting  
dorian@kupercon.com



Chair Elect:  
Lisa Glonek  
Delta Environmental  
lglonek@deltaenv.com



Program Co-Chair:  
Vacant



Continuing Education Liaison:  
Andrew Harvey  
drewh1031@earthlink.net



Treasurer:  
Kevin Schleh  
Geocon NW  
Kevin@GeoConNW.com



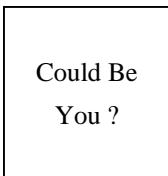
Membership Chair:  
Ruth Wilmoth  
Columbia Geotechnical, Inc.  
ruthwilmoth@comcast.net



Newsletter Editor:  
Bill Burns  
DOGAMI  
bill.burns@dogami.state.or.us



Secretary:  
Robin Johnston  
Amec Earth & Environmental  
Robin.johnston@amec.com



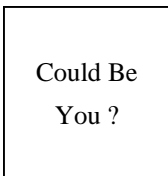
Field-Trip Chair:  
Vacant



Webpage Editor:  
Darren Beckstrand  
Cornforth Consultants  
dbeckstrand@



Past Chair:  
Jason Hinkle  
ODF  
jhinkle@odf.state.or.us



History Chair:  
Vacant



cornforthconsultants.com  
PSU Student Chapter President: Kate Mickelson  
kmickels@pdx.edu

The Oregon Section is also on the web at <http://www.aegoregon.org>  
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.

