

The Official

AEG OREGON CHAPTER NEWSLETTER

<http://www.aegoregon.org>

MEETING DETAILS

Date: Tuesday,
December 14, 2021
6:00 pm In Person
7:00 pm Virtual

Location: Virtual Link: <https://us02web.zoom.us/j/85635316319?pwd=ZjdTdXpVcWpaNIJjaE1DYTdmVGtZUT09>
Meeting ID: 856 3531 6319
Passcode: 148795

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6959 SW Multnomah Blvd,
Portland
[Brown Paper Ticket Link](#)

Evening Agenda:

6:00 to 7:00 pm Social hour!
7:00 pm Virtual Presentation

**We look forward to seeing
you at the presentation!!**

UPCOMING MEETINGS:

Jan 25th: ASCE GEOTECH
JOINT Meeting Orion George
Feb 21nd: Maddie German
(AEG President)
Mar 15th: Dr. Ashley Streig
Apr 19th: Rick Wooten
(Jahns lecturer)
May 17th: Student Night

The Missoula Floods and the Channeled Scabland

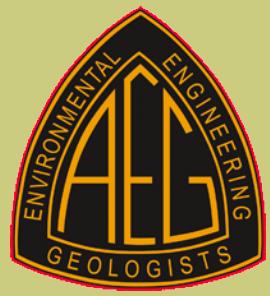
Presented by: Jim O'Connor

the U.S. Geological Survey

Abstract:



The U.S. Pacific Northwest has been fertile ground for understanding ice-age megafloods, including observations by Thomas Condon himself. Floods from a variety of sources affected the Columbia River and its tributaries but the largest, best known, and perhaps most spectacular were the Missoula floods. At the close of the last ice age, 15,000-20,000 years ago, a lobe of ice flowing south from Canada blocked the Clark Fork River in northern Idaho and western Montana. The resulting ice-dammed lake, known to geologists as Glacial Lake Missoula, was at times more than 2,000 feet deep and contained 500 cubic miles of water—20 times the size of Puget Sound. The ice dam ruptured and reformed dozens of times, each break-out sending torrents of water across eastern Washington and down the Columbia River. The flood waters were in places 1,000 feet deep and flowing at 30 or 40 miles per hour, lifting boulders the size of automobiles and tumbling them downstream. With such force, these humongous floods instantaneously shaped the landscape of the Pacific Northwest by carving the Channeled Scablands, shaping the Columbia River Gorge, depositing bars of sand and gravel 100s of feet high, and backfilling broad valleys with silt and clay. But the floods also shaped the science of geology. When these floods were first proposed by early geologist J. Harlen Bretz, such catastrophes were loathed by geologists confined by an intellectual framework of slow gradual processes shaping the planet over millions of years. The debate raged for decades, with many twists and turns. In the end Bretz prevailed, but surprising findings continue to emerge, challenging our understanding of one of the greatest natural events in earth history.



*"The earth is large and
old enough to teach us
modesty."*

Hans Cloos

Bio: Jim O'Connor

Jim O'Connor is a Pacific Northwest native long interested in the processes and events that shape the remarkable and diverse landscapes of the region. Following this interest with a Geological Science major at University of Washington and M.S. and Ph.D. degrees at University of Arizona, he has spent the last 30 years, mostly with the U.S. Geological Survey, focused on understanding the geology of the U.S. Pacific Northwest



Message from the Chair

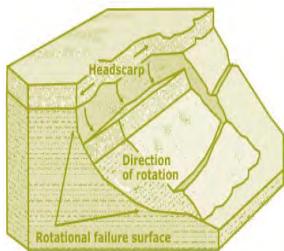
Holiday Greetings, AEG Oregon Chapter!

Your Board wishes you a happy holiday season! We hope you can join us, remotely or in-person, on Tuesday, December 14th for Dr. Jim O'Connor's "The Missoula Floods and Channeled Scablands" talk.

Our November virtual meeting went very well with a round-the-world landslide talk from Dr. John Clague discussing several recent catastrophic landslide disasters. He spoke from the epicenter of relentless atmospheric rivers in Vancouver, B.C., and associated secondary impacts like widespread flooding and landsliding, which effected major transportation corridors. Perhaps we will get an update from recovery in B.C. in the near future.

In the New Year, we will continue the tradition of a joint meeting with our ASCE colleagues, with a talk by Orion George, Scott Anderson, and Denny Capps, from FHWA and NPS, respectively, on the Pretty Rocks Landslide in Alaska. Please save the date: evening of January 25th.

Continued . . .



*"The earth is large and
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modesty."*

Hans Cloos

Chair Message Continued . . .

Some administration news: with continuing education credits now relevant to Oregon RGs and CEGs, we are keeping record of virtual attendance. The best way for us to do this is to have folks sign into a Zoom account when they join the Chapter meeting via a Zoom link. Zoom accounts are free and you do not need to register for the AEG meeting in advance. This step allows us to have a reliable record of attendees we can keep in order to distribute CEU certificates via email, as well as providing a digital archive. We appreciate your help in the effort to provide folks CEU certificates. To reiterate, the onus lies on the registrant to keep track of continuing education credit activities, but AEG Oregon wants to support this effort in whatever way possible. Do reach out with any feedback.

It's almost AEG renewal time! Please consider renewing your membership or joining for the multitude of benefits membership bestows. And hey- students! It's free for you! AEG Membership webpage

Wishing you a healthy and safe end of 2021- and best wishes for a prosperous 2022!

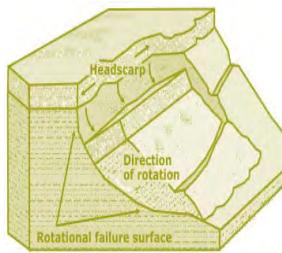
Nancy Calhoun

AEG Oregon Chapter Chair, 2020-21

- ZOOM
- Topic: AEG December Meeting
- Time: Dec 14, 2021 06:30 PM Pacific Time (US and Canada)
- Join Zoom Meeting
- [https://us02web.zoom.us/j/85635316319?
pwd=ZjdTdXpVcWpaNIJjaE1DYTdmVGtZUT09](https://us02web.zoom.us/j/85635316319?pwd=ZjdTdXpVcWpaNIJjaE1DYTdmVGtZUT09)
- Meeting ID: 856 3531 6319
- Passcode: 148795
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Sign-up and pay online

- <https://www.brownpapertickets.com/event/5322679>



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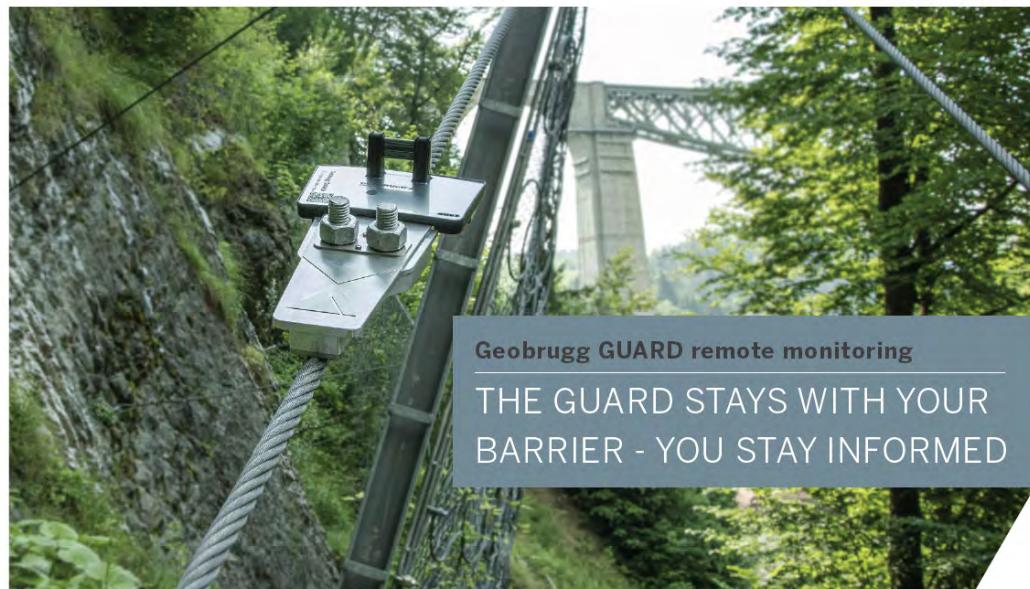
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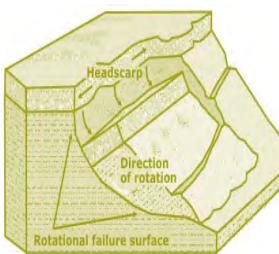
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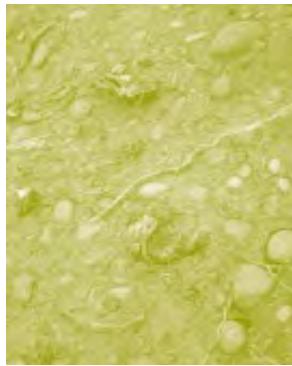


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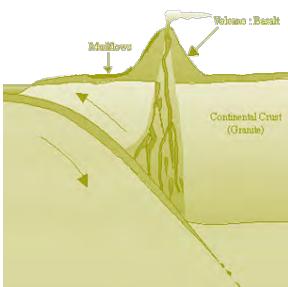
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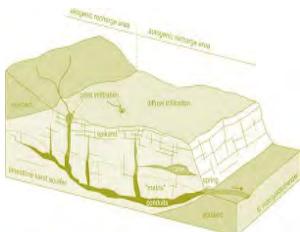
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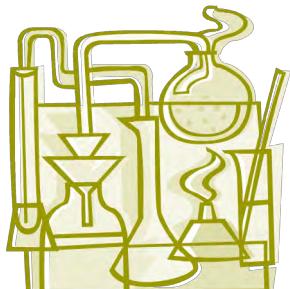


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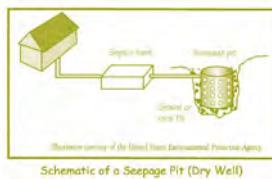


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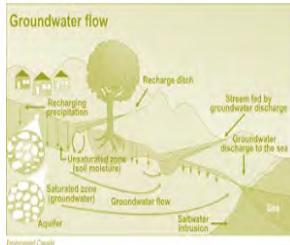


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"A soil adapted to the growth of plants, is necessarily prepared and carefully preserved; and, in the necessary waste of land which is inhabited, the foundation is laid for future continents, in order to support the system of the living world.."

James Hutton

Chapter Officers & Committee Chairs



Chair:
Nancy Calhoun
DOGAMI
nancy.calhoun@oregon.gov



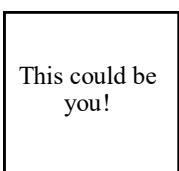
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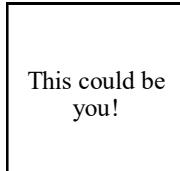
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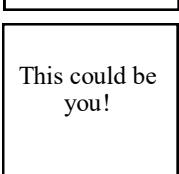
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The AEG Oregon Chapter Newsletter

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.

AEG OREGON CHAPTER NEWSLETTER is published monthly from September through May. Subscriptions are for members of AEG affiliated with the Oregon Chapter or other Chapters, 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: Aine Mines, AEG Oregon Chapter Chair-Elect, Cornforth Consultants, Inc., 10250 SW Greenburg Road, Suite 111, Portland, OR 97223, e-mail: amines@ccilt.com, phone (503) 452-1100. Electronic media is preferred. Deadline for submittal is the 25th of the month. Advertising: business card size \$100/yr; 1/4 page \$200/yr; 1/2 page \$350/yr; 1 page \$450/yr.

