



NORTHWEST GEOLOGICAL SOCIETY

A regional association of professionals, students & others interested in geology
Please browse www.nwgs.org for more about us



October, 2019 Newsletter

Volume 33, Number 6



October 8 Program Speaker

Dr. Adam Kent, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University

What Will Oregon's Next Volcanic Eruption Look Like?

The current Cascade Range has been active for over 5 million years, and played an important role in the geological development of the Pacific Northwest region. Eruptions happen at the rate of roughly one per century, and also encompass a very diverse range of volcanic phenomena, including pyroclastic flows, lava domes, ash deposits and lava flows. One important question is where future eruptions are most likely to occur, and what they will look like. I'll review some of the most likely candidates, using some of the latest research on volcanic systems, together with analogues from Hawaii, Japan, Indonesia, and the Caribbean.

5:30pm: No-host social hour
6:30pm: Buffet dinner
7:30pm: Speaker program
All are welcome to attend –
reservations are required
if coming for dinner.

► [Reservations here](#) 

PROGRAM DINNER RESERVATIONS: please make dinner reservations at www.nwgs.org by the **Thursday prior to the meeting**. Once you have submitted your reservation, you may pay online using your debit or credit card or your PayPal account (follow the online prompts), or by mailing a check or money order to [Northwest Geological Society, 4616 25th Ave NE #397, Seattle, WA. 98105](#) (must be received by the **Thursday prior to the meeting**). NWGS member dinner: \$45; non-member dinner: \$55; late registration: \$55, student dinner: \$20.

MEETING LOCATION: [Silver Cloud Hotel Seattle—University District](#), 5036 25th Ave NE, Seattle, WA 98105. No-host social hour is in the **Ag47 Bar & Bistro**. Dinner & speaker are in a dining room downstairs. Parking is free. See [Google Maps directions](#).

Upcoming Speakers and Field Trips

Fall Field Trip: Jim O'Connor (USGS) & Brent Cunderla (BLM), Glacial Lakes, Floods, and Geomorphic Evidence, Wenatchee, WA, October 4-6. **FULL.**

November 12 (joint AWG meeting): Emily Cahoon, Portland St. U., Rethinking Yellowstone's Volcanic Path Through Oregon

December 10: Ted Doughty, Prism Geoscience Consulting, The Bakken Oil Shale

Spring Field Trip: Skye Cooley, Idaho Geological Survey, is tentatively scheduled to lead a field trip to the Othello area looking at calcrete deposits and their implications regarding Yakima fold belt tectonism and the late(?) rise of the Cascade Range, April .24-26, 2020.

If you would like to volunteer to give a talk or lead a field trip for NWGS, please contact President Elect [Katie Brower](#).

Please see the [NWGS website](#) for detailed announcements.

Contact webmaster [Julie Masura](#) if you have any announcements to post on the website.

Announcements

- **New meeting venue:** [Silver Cloud Hotel—University District](#), (see PROGRAM DINNER RESERVATIONS, p. 1 for details).
- Due to the change in venue and rising costs, the Board has determined it necessary to raise annual dues and dinner prices. Revised annual dues are listed in *About NWGS* below, and new dinner prices are in PROGRAM DINNER RESERVATIONS on p. 1. We have been losing about \$1,000.00 per dinner meeting and the Board is concerned about depleting our surplus and becoming financially unstable.
- **Amy Knudson** has volunteered to take Beth Tanner's place as NWGS Secretary. We appreciate your years of service, Beth, and thanks, Amy for taking over!
- **Next Board of Directors meeting:** November 12, 4:30 P.M., [Silver Cloud Hotel](#).
YOU would like to be involved!

Photo Spotlight



The south side of Mount Hood viewed from the White River valley. Pyroclastic flows associated with Oregon's most recent eruption - the 1780-1790 Old Maid event travelled down this valley. Lewis and Clark observed some of the effects of sediment resulting from this eruption on local rivers in November, 1805. Adam Kent photo.

About NWGS

The [Northwest Geological Society](#) is a non-profit educational organization which provides a forum for information and discussion on Northwest geology and related topics. The Society sponsors talks by leading academic and professional geologists at its monthly meetings, conducts field trips to locales of regional geologic interest, and publishes meeting summaries and field guides based on those activities. Membership is open to anyone interested in regional geoscience issues. **Program meetings** are the 2nd Tuesdays, October through May at the [Silver Cloud Hotel Seattle-University District](#). Anyone may attend the speaker program, but a reservation is necessary for those wanting dinner (see 1st page).

Field trips (members only): The Society sponsors two overnight field trips each year, in the fall and the spring, to locales of regional geologic interest.

Membership is open to anybody with an interest in geology. **Annual dues:** Professional: \$55; Student: \$10. **To join or pay annual dues:** go to www.nwgs.org, or mail a check or money order to [Northwest Geological Society](#) 4616 25th Ave NE #397, Seattle, WA. 98105. Please include your name, address, home phone, email, and employer/affiliation (if any). Please visit [About NWGS](#) for more details.

Recommended Readings

Hildreth, W., 2007, Quaternary magmatism in the Cascades—geologic perspectives. Professional Papers of the United States Geological Survey, 1744.

Kent, A. J. R., Darr, C., Koleszar, A. M., Salisbury, M. J. & Cooper, K. M., 2010, Preferential eruption of andesitic magmas through recharge filtering. *Nat. Geosci.* 3, 631–636.

Till, C.B., **Kent, A. H. R.**, Abers, G. Janiszewski, H., Jaherty, J., Pitcher, B., 2019, Towards Assessing the Causes of Volcanic Diversity at the Arc Scale, *Nature Communications*, Vol. 10, March 22, 2019.

Please send your reading recommendations to Newsletter Editor [Tom Bush](#).

To report a change of email or postal address or request to be removed from mailings, notify Membership Chair [George Bennett](#). Questions or comments? Contact President [Heather Vick](#).

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