



NORTHWEST GEOLOGICAL SOCIETY

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

November 2015 Newsletter

Volume 29, Number 7



November 10 Program Speaker

Speaker: Trevor Contreras, Wash. Dept. Natural Resources

Title: Hood Canal on the rocks II: Mapping rocks, faults, and dirt along Hood Canal – the nonglacial story

Abstract: The State Geologic Survey recently mapped all 7.5-minute quadrangles along Hood Canal. This presentation will pick up where a previous talk last January left off and focus on two topics:

- Evidence for faulting along Hood Canal, including exposures that suggest the Seattle Fault extends west of Green and Gold mountains, and the Dabob Bay fault zone appears to be a northwest trending right-lateral fault zone that splays off the Seattle Fault. Convergence of multiple fault zones in the area is complex – field evidence provides some insight into the deformation, but the tectonic puzzle remains unfinished.
- Bretz was right! Nonglacial deposits make up a significant amount of the sediment exposed along the shores of the Puget Sound region, including Hood Canal. Without age control, older nonglacial deposits in northern Hood Canal may be confused with Vashon glacial advance deposits. Nonglacial sediments were deposited prior to advance of the Cordilleran Ice Sheet, suggesting the basin was largely filled before ice blocked the Strait of Juan de Fuca.

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: NWGS members: **\$40**; Non-members: **\$45**; Full-time students : **\$20**. Add \$5 for LATE REGISTRATION. Make your reservation and payment on-line at www.nwgs.org (or mail your payment to *Northwest Geological Society, 4616 25th Ave NE #397, Seattle, WA. 98105* (must be received by Thursday prior to meeting)). Contact Secretary [Beth Tanner](#) with questions about dinner reservations.

If attending the speaker program only, a \$5 voluntary donation to help defray the meeting room cost is requested.

Location: Pacific Dining Hall at the [Talaris Conference Center](#), 4000 NE 41st St., Seattle, WA., 98105. **Directions:** See [on-line directions with map](#), or: from I-5 northbound or southbound in Seattle, take Exit 168B (NE 45th St.). Drive east on NE 45th St. past UW down the hill and past University Village. Turn south (right) onto Mary Gates Memorial Drive at the 5-way intersection. MGM Drive will curve east (left) and become NE 41st St. Continue several blocks to the [Talaris Conference Center](#) entrance on the north (left) side. We meet in the Pacific Dining room on the left.

Upcoming Speakers and Field Trips

December 8: David Lageson, Earth Sciences, Montana St. U., The highest outcrop on Earth: What the summit limestone of Mt. Everest tells us about the tectonic evolution of the Greater Himalay

Spring, 2016: There may be a field trip to a local quarry. Details TBA.

Summer, 2016 Field Trip: Chris Darmon, Down to Earth, Geology of Scotland, June 21–July 1, 2016. See *Announcements* below for more details.

Fall, 2016 Field Trip: Eric Cheney, Geology of the Republic area and the Okanogan Metamorphic Core Complex, September or October. Details TBA.

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

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

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

Announcements

- The list of interested participants for the **Geology of Scotland** field trip on June 21–July 1, 2016 is FULL, but contact [Kathleen Goodman](#) to be added to the waiting list. Trip cost will be ~\$3,000 plus airfare. **Spots may open up !!!** If you are on the list, watch for details soon.
- Please visit the [Washington Geology Library](#) website to check out their amazing collection of geologic materials, or contact Librarian [Stephanie Earls!](#)
- Next Board Meeting: Tuesday, Dec. 8, 4:00pm, Talaris Conference Center.

YOU would like to be involved!



While mapping the Seabeck quadrangle in October we found faulted and folded sediments on the east shore of Dabob Bay. The sediment is thought to be about 100,000 years old, suggesting the faulting is geologically young. The fault planes parallel a magnetic field anomaly that runs through the bay, suggesting this structure is likely fault related. The fault planes we measured generally strike north 30 degrees west and dip to the NE 28 degrees. Photo from [Washington State Geology News](#).

About NWGS

NWGS, a regional association of professionals, students & other persons interested in **geology**, provides a forum for the presentation and discussion of a wide range of geologic topics, emphasizing those of the Pacific Northwest of fundamental scientific interest.

YOU would like to be involved!

Program meetings: 2nd Tuesdays, October through May in the Pacific Dining Hall at the [Talaris Conference Center](#) in Seattle (see 1st page). Anyone may attend the speaker program, but a reservation is necessary for those wanting dinner (see 1st page). **Field trips (members only):** one in late spring/early summer and one in late summer/early fall, usually of 1-3 days in length. **Membership** is open to anybody with a professional or amateur interest in geology. **Annual dues:** Professional: \$30; Student: \$5. **To join or pay annual dues:** send a check payable to NWGS to Secretary [Beth Tanner](#), 4616 25th Ave NE #397, Seattle, WA. 98105. Please include your name, address, home phone, email, and employer/affiliation (if any). Professional dues may now also be paid at www.nwgs.org.

YOU would like to be involved!

Recommended Readings

Barnett, E. A.; Sherrod, B. L.; Kelsey, H. M.; Czajkowski, J. L.; Walsh, T. J.; Contreras, T. A.; Davis-Staunton, K.; Schermer, E. R.; Carson, R. J., 2009, Active faulting along the Saddle Mountain fault zone, southeast Olympic Mountains, WA [abstract]: Eos (American Geophysical Union Transactions), v. 90, no. 52, Suppl., S51B-1404.

Contreras, T. A.; Weeks, S. A.; Stanton, K. M. D.; Stanton, B. W.; Perry, B. B.; Walsh, T. J.; Carson, R. J.; Clark, K. P.; Mahan, S. A., 2012, Geologic map of the Holly 7.5-minute quadrangle, Jefferson, Kitsap, and Mason Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2011-5, 1 sheet, scale 1:24,000, with 13 p. text. [http://www.dnr.wa.gov/Publications/ger_ofr2011-5_geol_map_holly_24k.zip]

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 [Grace Winer](#).

Photo Spotlight

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