

NORTHWEST GEOLOGICAL SOCIETY

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

November, 2021 Newsletter

Volume 35, Number 7

November 9 Program Speaker

Zoom meeting link will be in the meeting reminder email to registered members prior to the meeting. If you are not a member, please email nwgs.secretary@gmail.com for the link.

Reservations are not needed (we may now host up to 500 participants!)

6:30pm: social hour small group break-out sessions; **7:30pm:** announcements and speaker program

Speakers: Kathy Goetz Troost, PhD, LG, Associate Teaching Faculty, UW and Master Students: Mitchell Hatfield, Environmental Geologist, Shannon & Wilson, Inc., Crystal Lambert, Geologist, Aspect Consulting, LLC, Sam Angel, Geologist, Associated Earth Sciences, Inc., and Cody Chaussee, Engineering Geology Intern, WSDOT, *Port Gamble Coastal Hazards Project*

Abstract: Multi-phase hazard analysis for the Port Gamble S'Klallam Tribe's (PGST) Coastal Management Plan along an approximate 2.6 square miles of land on the Kitsap County, Washington. The hazard analyses were conducted to partly evaluate potential slope stability and future impacts on culturally sensitive communities and infrastructure that would be in imminent danger due to changes to the bluffs.

Individual Hazard Analyses include:

- Port Gamble S'Klallam Tribe Coastal Hazards Analysis: Shoreline Change and Extreme Coastal Water Levels by Mitchell Hatfield, Environmental Geologist, Shannon & Wilson, Inc.
- Surficial Geology and Hydrogeologic Features of Port Gamble S'Klallam Tribal Trust Land, Kitsap County, Washington by Crystal Lambert, Geologist, Aspect Consulting, LLC
- Slope Stability Analysis of Port Gamble S'Klallam Tribal (PGST) Land, Kitsap County, Washington by Sam Angel, Geologist, Associated Earth Sciences, Inc.
- Stability Assessment of the Cemetery Bluff at the Port Gamble S'Klallam Tribe Trust Land by Cody Chaussee, Engineering Geology Intern, WSDOT

JOIN THE PROGRAM VIA ZOOM! Join the program by clicking the link above. There is no cost, and a reservation is not needed. You may join for both the social hour and the speaker program, or just the speaker program. During the speaker presentation, your microphone will be muted by the program host, but it is your option as to whether or not to mute your camera. A Q&A session will follow the presentation. During the presentation, click the **Chat** link at the bottom of the screen to type a comment or question to the general audience, or the **Raise my hand** link to directly ask the speaker a question or make a comment and the host will call on you.

Click on the Zoom link above to join the meeting

See www.nwgs.org for the full Zoom information.

Upcoming Speakers and Field Trips

December 14: Keith Ronnholm, retired UW Joint Institute for Study of the Atmosphere and Ocean (JISAO), Eyewitness to an Exploding Volcano – Mt. St. Helens

January 11: TBA.

February 8: TBA.

March 8: TBA

If you would like to volunteer to give a talk or lead a field trip for NWGS, please contact President [Chris Kimmel](mailto:Chris.Kimmel@nwgs.org).

Please see the [NWGS website](http://www.nwgs.org) for detailed announcements

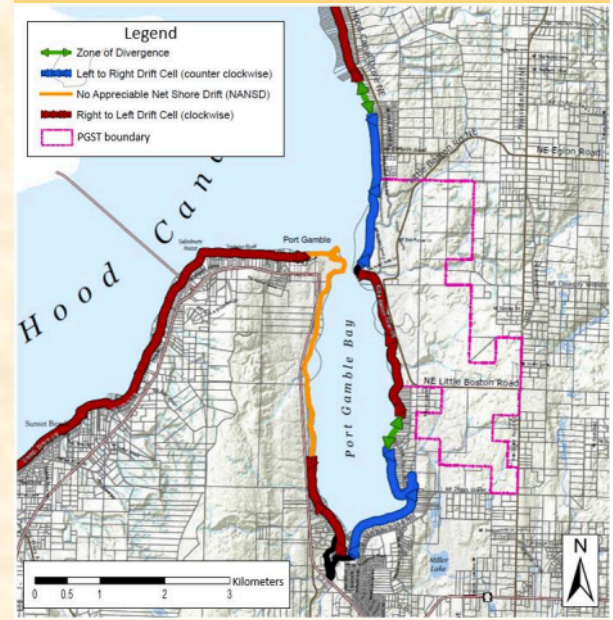
Contact webmaster [Julie Masura](mailto:Julie.Masura@nwgs.org) if you have any announcements to post on the website.

Announcements

- For now we are still meeting via Zoom (see p. 1) until COVID-19 concerns abate. We are also searching for a new in-person venue.
- Tom Williams, Williams GeoAdventures (<https://www.geology-adventures.com/>), is leading his Scotland and Italy Dolomites trips again in 2022 (independent of NWGS).
- Tom Williams also has a second Grand Canyon raft trip available Aug 11-18, 2022. Contact him at the GeoAdventures website above if interested.
- **Next Board Meeting:** Tues., Nov. 9, 5:30pm via Zoom.

NWGS needs great people like YOU!

Photo Spotlight



Drift cell map of the Port Gamble S'Klallam Tribe beaches and surrounding area. Two drift cells converge at Point Julia bringing sediment from the south and north. Arrows show drift direction. From Hatfield, 2020.

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. **Until we are able to meet in person again, meetings will be held via Zoom (link sent via email to members; nonmembers contact the NWGS Secretary).** Anyone may attend the speaker the speaker program at no cost, and a reservation is not necessary.

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. **(Suspended pending pandemic recovery.)**

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).

Recommended Readings

Hatfield, Mitchell, 2020, Port Gamble S'Klallam Tribe Coastal Analysis: Shoreline Change and Extreme Water Levels, M.S., Earth and Space Sciences: Applied Geosciences, Univ. of Washington, Seattle, 88 p.

Miller, I.M., Morgan, H., Mauger, G., Newton, T., Weldon, R., Schmidt, D., Welch, M., Grossman, E. 2018, Projected Sea Level Rise for Washington State – A 2018 Assessment, A collaboration of Washington Sea Grant, University of Washington Climate Impacts Group, Oregon State University, University of Washington, and US Geological Survey. Prepared for the Washington Coastal Resilience Project.

Troost, K.G. and Booth, D.B., 2008, Geology of Seattle and the Seattle Area, in Baum, R., Godt, J, and Highland, L. eds., Landslides and Engineering Geology of the Seattle, Washington, Area, Geol. Soc. Amer., Special Papers XX, p.1-37, 2 plates.

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 [Chris Kimmel](#).

NWGS Board

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