

# NORTHWEST GEOLOGICAL SOCIETY

A regional association of professionals, students & others interested in geology  
Please browse [www.nwgs.org](http://www.nwgs.org) for more about us



## May, 2018 Newsletter

Volume 32, Number 5



### May 8 Program Speaker

**Speaker:** Eric Cheney, UW Earth & Space Sciences Emeritus

**Title:** When Did the Cascade Range Rise?

**Abstract:** The Cascade Range is not 30 to 40 Ma. Flora in the Miocene Columbia River Basalt Group (CRBG) and overlying 12 Ma Ellensburg Formation record no rain shadow (hence no significant mountains).

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](#)



The SSW striking Cascade Range anticlinorium (CRA) is outlined clearly on the east by easterly dipping CRBG. The mostly covered western limb consists of Ellensburg-correlative formations in westerly trending synclines and fault blocks that together define the SSW striking Puget synclinorium.

The 4 Ma Thorp Gravel and Simcoe Mountains basaltic rocks on the E limb of the CRA dip 3<sup>o</sup>- 5<sup>o</sup> E. A trend surface on 205 peaks in the southern Cascades that are underlain by > 5 Ma rocks is antiformal, doubly plunging, SSW striking, and has relief of 1.4 km. In the Brightwater tunnel on the eastern limb of the Puget synclinorium, the 65 to 80 ka Possession Drift descends westward 43 m in 11 km.

**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](http://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 (see map p. 3):** 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

**May 18-20:** Spring field trip, Eric Cheney, UW ESS Emeritus, *Floods, Flows, Faults, Glaciers, Gold and Gneisses, From Quincy to Wenatchee* (trip is now full with a waitlist started, see more in Announcements on p. 2).

**October 1:** Tom Doe, Whidbey Island Geohazards (a repeat of his field trip for the symposium in February).

**May, 2019:** Jim O'Connor, Missoula Floods terrain (tentative).

**Late June/Early July, 2019:** Tom Williams, [GeoAdventures](#), Dolo-Slovo Rocks!, northern Italy/Slovenia (see Announcements on p. 2 for cost and registration details).

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

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

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

## Announcements

- To be added to the waitlist for Eric Cheney's spring field trip (May 18-20), please contact Field Trip Coordinator [Kathleen Goodman](#) immediately.
- Tom Williams of [GeoAdventures](#) will lead the field trip, **Dolo-Slovo Rocks!**, a 10-day tour of [the dolomites of Italy](#) (northern Italy/Slovenia), in late June-early July, 2019. Cost is \$3980. To register, please send your \$800 deposit ([check only](#)) to [Williams GeoAdventures](#), 101 Ross St, #4, Cotati, CA. 94931 or use [Venmo](#). Balance of \$3150 is due April 1, 2019. For more information, contact [Kathleen Goodman](#) or Tom Williams at 707-953-6979.
- Next **Board of Directors meeting**: **May 8**, 4:30PM, Talaris Conference of the Cascade Range Center.

*YOU would like to be involved!*

## Photo Spotlight



*The CRBG at Table Mountain (southeast of Swauk Pass) and the remnant of the 5 Ma erosion surface that truncates it and projects northwestward above Mount Stuart (2850 m) on the crest*

## 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**: 2<sup>nd</sup> Tuesdays, October through May in the Pacific Dining Hall at the [Talaris Conference Center](#) in Seattle (see 1<sup>st</sup> page). Anyone may attend the speaker program, but a reservation is necessary for those wanting dinner (see 1<sup>st</sup> 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: \$42; 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](http://www.nwgs.org).

*YOU would like to be involved!*

## Recommended Readings

Cheney, E.S., 2017, Evidence for a 5 Ma erosion surface and the subsequent rise of the anticlinal Cascade Range, Washington, Geological Society of America Abstracts with Programs, v. 49, no. 6, doi:10.11/30/abs/72017 AM-300312.

Cheney, E.S., 2016, The Neogene eggcrate of the Pacific Northwest, in Cheney, E.S., editor, [The Geology of Washington and Beyond](#), From [Laurentia to Cascadia](#), University of Washington Press, Seattle, WA, p. 206-219.

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 [Tom Colligan](#).

## NWGS Board

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LaManna Geosciences

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Membership Chair [George Bennett](#)  
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Field Trip Coordinator [Kathleen Goodman](#), AMEC

Newsletter Editor & Publications [Tom Bush](#)  
Pierce College  
Puyallup

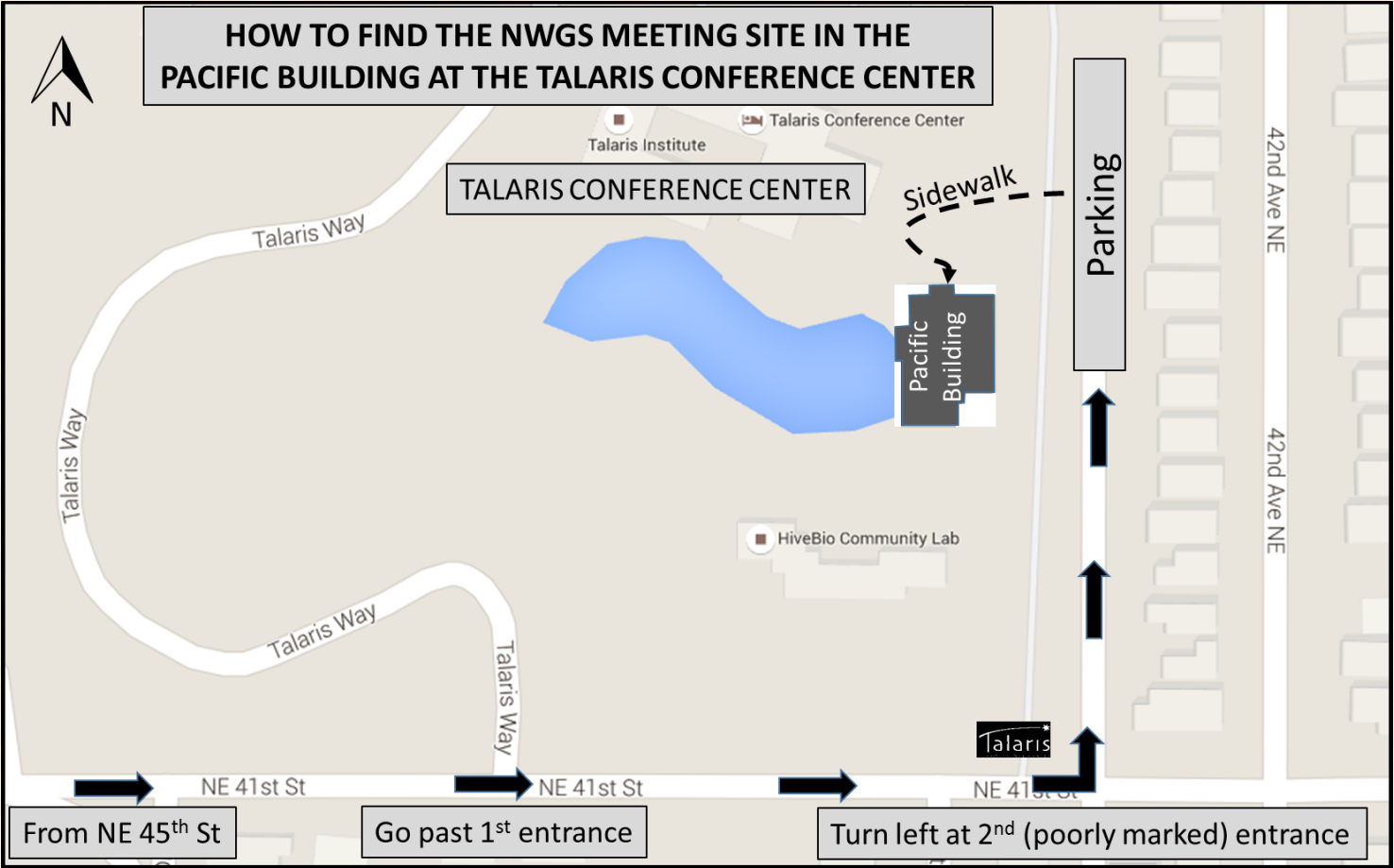
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Highline CC



# HOW TO FIND THE NWGS MEETING SITE IN THE PACIFIC BUILDING AT THE TALARIS CONFERENCE CENTER



From NE 45<sup>th</sup> St

Go past 1<sup>st</sup> entrance

Turn left at 2<sup>nd</sup> (poorly marked) entrance