

NORTHWEST GEOLOGICAL SOCIETY

A regional association of professionals, students & others interested in geology
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April, 2017 Newsletter

Volume 31, Number 4



April 11 Program Speaker

Speaker: Eric Cheney, UW ESS Department (Emeritus)

Title: The Geology of the Sanpoil Syncline and the Okanogan Metamorphic Core Complex, North-Central Washington

Abstract:

The geology of north-central Washington includes portions of pre-Jurassic North America (Laurentia), the Quesnel terrane, and Cenozoic cover sequences. Eocene antiformal metamorphic core complexes dominate the topography and the structure of the region. The Sanpoil syncline between the Okanogan and Kettle metamorphic core complexes is too often called the "Republic graben". The volcanic and sedimentary strata of regional Eocene unconformity-bounded sequences are preserved in the Sanpoil syncline and other structural lows in the region. The largest epithermal gold producer was the Knob Hill mine (1937 to 1995), which was intimately tied to the history of Republic.

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 (**SEE MAP ON P. 3**).

Upcoming Speakers and Field Trips

May 9: Don Reichmuth, Geomax PC, Late Pleistocene Sea Level in the Arctic Ocean and Glacial Lake Reichmuth.

Spring Field Trip: Eric Cheney, UW ESS, The Geology of the Sanpoil Syncline and the Okanogan Metamorphic Core Complex, North-Central Washington, May 5-7, 2017 (see next page for registration information).

Fall Field Trip: TBA.

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

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

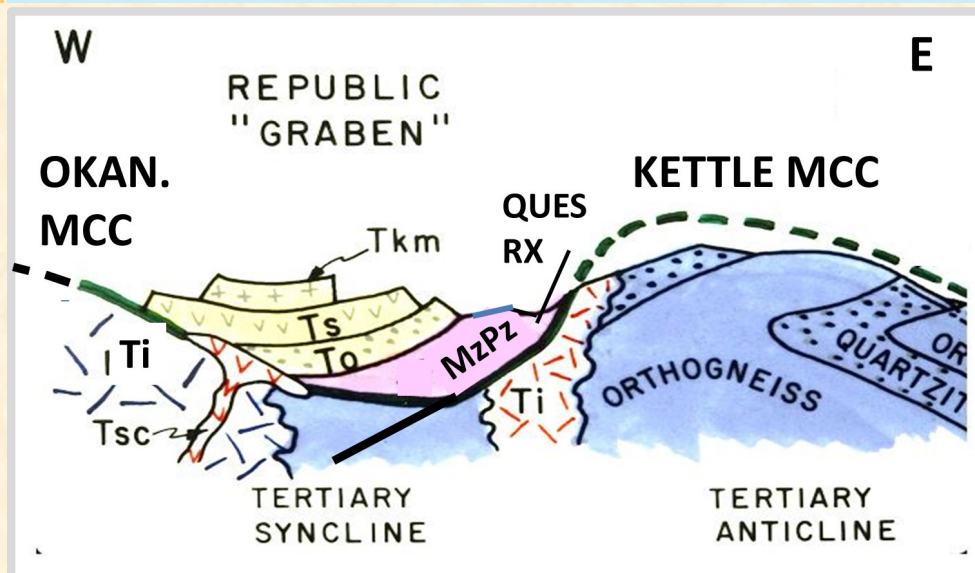
Contact webmaster [Julie Masura](#) if you have any announcements to post on the website.

Announcements

- The spring field trip, *Geology of the Sanpoil Syncline and the Okanogan Metamorphic Core complex, North-Central Washington*, led by Eric Cheney, is nearly full. Contact [Kathleen Goodman](#) to see about remaining openings.
- The 2018 NWGS Symposium dates have changed: they are now February 16, 17, & 18 for the technical sessions, public sessions, and field trip, respectively.
- David Williams (12/16 speaker) will be speaking at [Third Place Bookstore](#), Lake Forest Park on April 5 at 7pm on his new book, *Seattle Walks*, which addresses local geology on several walks.
- If you have an unusual rock, please bring it to show!
- Next Board of Directors meeting: April 11, 4:30 P.M., Talaris Conference Center.

YOU would like to be involved!

Photo Spotlight



Schematic diagram of the Sanpoil Syncline bounded by Okanogan and Kettle metamorphic core complex (MMC) detachment faults. Submitted by Eric Cheney.

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: \$40; 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

Cheney, E. S., 2014, The Fundamentals of the geology of north-central Washington: *Northwest Geology*, v. 43, p. 1-12.

Cheney, E.S., 2014, Stratigraphy, structure, and mineralization in the Quesnel terrane north of Republic, Washington: *Northwest Geology*, v.43, p. 177-188.

Cheney, E.S., and Rasmussen, M.G., 1996, Regional geology of the Republic area: *Washington Geology*, v. 24, no. 2, p. 3-7.

Morell, K. D., Regalla, Christine, Leonard, L. J., Amos, Colin, and Levson, Vic, 2017, Quaternary rupture of a crustal fault beneath Victoria, British Columbia, Canada, *GSA Today*, v. 27, no. 3-4, doi 10.1130/GSATG291A.1.

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 [Scott Calhoun](#).

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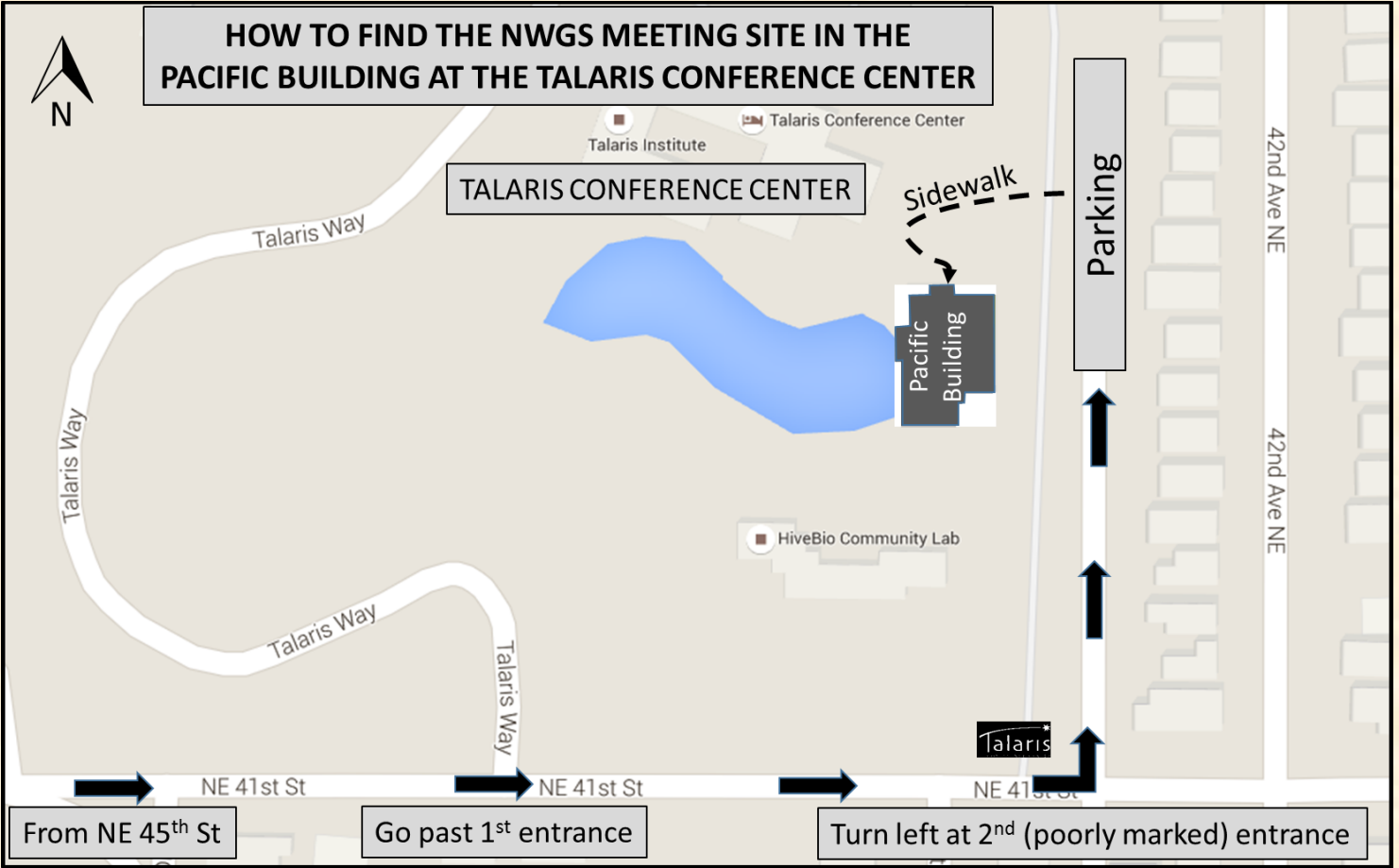
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HOW TO FIND THE NWGS MEETING SITE IN THE PACIFIC BUILDING AT THE TALARIS CONFERENCE CENTER



From NE 45th St

Go past 1st entrance

Turn left at 2nd (poorly marked) entrance