

## 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

### February, 2025 Newsletter

Volume 39, Number 2

#### February 11 Program Speaker

5:30pm: No-host social hour; 6:30pm: Dinner  
7:30pm: Speaker program ([reservations here](#), see below for details)

**Speaker:** Ken Petrie, Senior Geologist, Weyerhaeuser

**Title:** Carbon Capture and Sequestration Overview

**Abstract:** Carbon capture and Sequestration (CCS) is just one tool to aid in the effort to decarbonize and meet climate goals. Scientists have studied CCS for decades, with the DOE funding a handful of small-scale projects. The passage of 45Q legislation and enhancement of the associated tax credit in recent years has resulted in the rapid expansion of players in the CCS industry. Although companies have applied for Class VI injection wells and developed injection plans, there are regulatory, economic, and social hurdles to overcome before widespread deployment can begin. This talk provides an overview of CCS, including a view on how to remove obstacles, and move projects beyond the evaluation phase. The talk concludes with the state of CCS in the Pacific Northwest.

#### IN-PERSON PROGRAM DINNER RESERVATIONS!

**Cost:** NWGS member dinner: \$40; Non-member dinner: \$50; Student dinner: \$10; Talk-only: \$10; Student talk-only: free

**To register for attending in-person:** please [make your reservation here](#) ([nwgs.org/meeting-registration/](http://nwgs.org/meeting-registration/)) by the Thursday prior to the meeting.

**Catered menu:** Braised pot roast with potatoes and carrots (df, gf), seafood primavera (df, gf available), vegan "meat" loaf (gf, vegan), roasted garlic mashed potatoes (gf, df, vegan), housemade gravies, dinner salad with dressings (df, gf, vegan), dinner rolls with garlic spread (df available, gf available)

**Location:** Fautleroy YMCA next to the Fautleroy UCC Church, West Seattle, 9140 California Ave SW, Seattle, WA. 98136. Use the parking lot on the north side of the building. Get [Google Maps driving directions here](#).

**Cost:** NWGS member dinner: \$40; Non-member dinner: \$50; Student dinner: \$10; Talk-only: \$10; Student talk-only: Free

#### Upcoming Speakers and Field Trips

**March 11:** Trenton Cladouhos, PhD, Quaise Energy, Super Hot Rocks and Geothermal Energy

**April 8:** Baptiste Journaux, Assistant Research Professor, UW, topic TBD

**May 13:** Akshay Mehra, Assistant Professor UW, Field based sedimentology and AI

**Spring FT:** George Bennett, Kurt Siegfried, and David Boyer, Cascade Quarry and Proctor Creek Mines near Gold Bar, WA., Saturday, May 3.

**Fall FT:** TBD

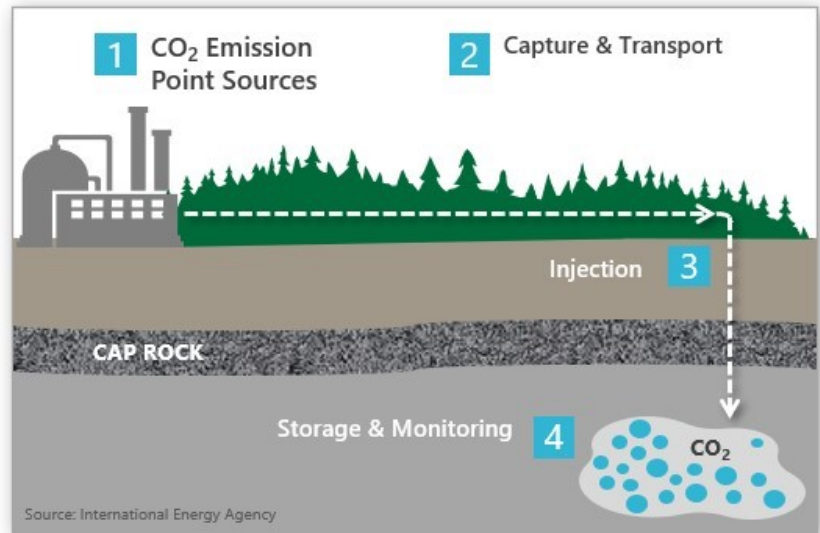
If you would like to volunteer to give a talk or lead a field trip for NWGS, please contact President [David Boyer](#).

Please see the [NWGS website](#) for detailed announcements.  
Contact webmaster [Matthew Porter](#) if you have any announcements to post on the website.

## Announcements

- Please notice below that there is still **several Board positions** open. These include the critical **President Elect** position. This position is generally filled at the end of the calendar year and is essential for the smooth functioning of our gatherings. The primary responsibility is to start lining up speakers starting in a year, so it does not require a large time commitment. Please contact President [David Boyer](#) or any Board member for more information. Shared governance is critical for the continued viability of our organization.
- The **spring field trip** will be a visit to the **Cascade Quarry** and **Proctor Creek Mines** near Gold Bar, led by George Bennett, Kurt Siegfried, and David Boyer. The Cascade Quarry is a hard rock operation and has some excellent exposures along several benches. Proctor Creek Quarry is both a sand and gravel and hard rock operation. There is an excellent outwash exposure in the quarry (that is currently being mined) and there will be drill core and outcrop to look at that is related to the hard rock portion of the mine that is being permitted. **Date: Saturday, May 3.**
- The **COLDEX Center for Oldest Ice Exploration** is looking for student applicants for its NSF 2024 Research Experience for Undergraduates (REU) program. NSF COLDEX REU students are financially supported to present their research at TWO scientific meetings!. For more information and to apply, please visit [COD-LEX NSF REU](#).
- Next **Board of Directors meeting**: Tuesday, **February 18**, 6:00 pm via Zoom. Members are welcome to attend. Please email [nwgs.secretary.com](mailto:nwgs.secretary.com) for the Zoom link.

## Photo Spotlight



Schematic showing carbon dioxide capture and sequestration from a point source (submitted by K. Pietre).

## 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 2<sup>nd</sup> Tuesdays, October through May at the [Fauntleroy YMCA in West Seattle, 9140 California Ave SW, WA. 98136](#). Reservations are required to attend in-person (Member dinner: \$40; Non-member dinner: \$50; Student dinner: \$10; Talk-only: \$10; Student talk-only: free).

**Field trips (members only)**: The Society sponsors two overnight field trips each year, one in the fall and one in 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 the [NWGS website](#), or visit our website for more details. We look forward to seeing you soon!

## Recommended Readings

Carbon Capture and Sequestration (CCS): A Primer, Peter Folger, CRS, 2013 <https://sgp.fas.org/crs/misc/R42532.pdf>

Understanding carbon capture and storage, British Geological Society website <https://www.bgs.ac.uk/discovering-geology/climate-change/carbon-capture-and-storage/>  
Vol. 61, Issue 4, 2024 April 29, 2024 CDT

A Hitchhiker's Guide to Carbon Capture and Sequestration Regulation in Texas and Beyond [Muriel Hague https://houstonlawreview.org/article/117181-a-hitchhiker-s-guide-to-carbon-capture-and-sequestration-regulation-in-texas-and-beyond](https://houstonlawreview.org/article/117181-a-hitchhiker-s-guide-to-carbon-capture-and-sequestration-regulation-in-texas-and-beyond)

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

To update your account information, go to [NWGS.org/membership](https://nwgs.org/membership).  
Questions or comments? Contact President [David Boyer](#).

## Board of Directors

President [David Boyer](#)  
Weyerhaeuser

President Elect **OPEN**

Past President [Maria Parente](#)  
Pierce County Library

Secretary [Amy Knudson](#)

Treasurer [Pam Osterhout](#)  
Floyd I Snider

At-Large Board Members [Tom Bush](#)  
Pierce College Puyallup  
[Tom Colligan](#)

## Other Personnel

Membership Chair [George Bennett](#)  
Bennett Consulting

Field Trip Coordinator [Kathleen Goodman](#), WSP

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

Poster Chair [Maura OBrien](#)  
Retired

Webmaster [Matthew Porter](#)  
AESI

Facebook Page Master [Eric Baer](#)  
Highline CC