

NORTHWEST GEOLOGICAL SOCIETY

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

May, 2022 Newsletter

Volume 36, Number 5

May 17 Program Speaker

The [Zoom meeting link](#) will be in the meeting reminder email from [NWGS Secretary](#) to all registered members prior to the meeting.

If you are not a member, please email [NWGS Secretary](#) for the link.

Reservations are not needed.

6:30pm: No-host social hour small group break-out sessions; 7:30pm: Speaker program

**Note: due to a conflict with WAHGS, the May meeting has been moved to [Tuesday, May 17](#) (3rd Tuesday).
Speaker: Lee Florea, Washington Geological Survey**

Title: Toward a More Comprehensive Model of Karst Development

Abstract:

A growing suite of data from karst landscapes, including cave morphology, host rock petrology, secondary mineralization, and groundwater chemistry, suggests multigenerational cave development inclusive of epigenetic and hypogenetic processes. In this presentation we summarize examples from the Cumberland and Mitchell plateaus of Kentucky and Indiana, respectively, and expand toward a larger picture of how geologic structure, fluid chemistry, and changing climate lead to cave systems that retain signatures of a complex past.

[JOIN THE PROGRAM VIA ZOOM!](#) Join the program by clicking the link in the separate meeting email announcement. Until we start meeting in person again, there is no cost and a reservation is not needed. You may join for both the social hour (6:30 pm) and the speaker program (7:30 pm), or just the speaker program. During the speaker presentation, the host will mute your microphone, and we ask that you please also mute your camera so as to allow sufficient band width for the speaker program. A Q&A session will follow the presentation. If you have a question or comment during the presentation, click **Chat** at the bottom of your screen to type your question or comment to the general audience. You may also click the **Raise my hand** link to ask the speaker a question and the host will call on you. Click on the Zoom link above to join the meeting at the appropriate time as listed above on the day of the meeting. See the [NWGS](#)

Upcoming Speakers and Field Trips

June 14: We have added a June meeting this year; Tom Doe will provide an overview the Fidalgo Island ophiolite as a prelude to the fall field trip there. We are hoping this can be a hybrid meeting, with the first in-person component since pre-pandemic times!

Fall Field Trip: Tom Doe & John Oldow, Fidalgo Island Ophiolite Revisited, Sept. 9-11, Cost TBA. See details in Announcements below.

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

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

Announcements

- NWGS is still seeking a talented volunteer to fill the **President Elect** position. The time commitment is not enormous, and this is a rewarding opportunity to contribute to and help shape the direction of our fine organization. Please contact President [Matthew Porter](#) for more information.
- Field trip update: the spring field trip has migrated to fall and will be led by Tom Doe and John Oldow entitled The Fidalgo Island Ophiolite Revisited, Sept. 9-1 (joint field trip with AEG). The first day will involve accessing key outcrops by boat! Cost and other details will be available in June.
- Next **Board of Directors meeting**: May 17, 2022, 5:30 P.M. via Zoom.

YOU would like to be involved!

Photo Spotlight

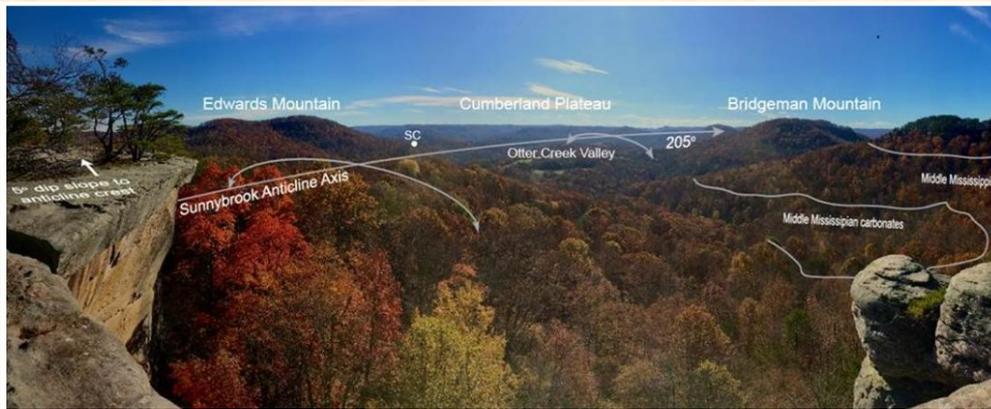


Photo of karst landscape in the Cumberland Plateau area of Kentucky along the crest of the Sunnybrook anticline axis, which has gently folded Mississippian carbonate strata. Lee Florea photo.

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 are held via Zoom (link is included in the email announcement to all members; nonmembers contact the [NWGS Secretary](#)).** Anyone may attend the speaker program at no cost, and a reservation is not needed.

Field trips (members only): The Society sponsors two overnight field trips each year, one in the fall and one 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

Burgess, S.A., **Florea, L.J.**, Branam, T.D., In Review. Sulfur geochemistry reveals polygenetic cave development in a classic karst landscape. *Chemical Geology*.

Florea, L.J., 2015, Carbon flux and landscape evolution in epigenic karst aquifers modeled from geochemical mass balance. *Earth Surface Processes and Landforms*. doi: 10.1002/esp.3709.

Florea, L.J., 2013, Isotopes of Carbon in a Karst Aquifer of the Cumberland Plateau of Kentucky. *Acta Carsologica* 42(2-3): 277–289.

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

To update your account information,, go to [NWGS.org/membership](#).
Questions or comments? Contact President [Matthew Porter](#).

NWGS Board

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