

NORTHWEST GEOLOGICAL SOCIETY

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

October, 2021 Newsletter

Volume 35, Number 6

October 12 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.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

Speaker: Melissa Rice, Western Washington University, *NASA's Mars-2020 Mission in Jezero Crater: The First 8 Months of Exploration by the Perseverance Rover*

Abstract: The Mars 2020 Perseverance rover, NASA's most recent Mars rover mission, landed in Jezero crater in February 2021. The landing site is near one of the oldest and best-preserved river deltas on Mars. Perseverance is seeking signs of ancient life in the fluvio-deltaic and lacustrine sediments, and is collecting samples to be returned from Mars back to Earth by a follow-up mission later in the decade. The rover was also accompanied by the Ingenuity helicopter - the first spacecraft to fly in Mars' atmosphere - which is helping to scout Perseverance's traverse path in Jezero crater. This talk will review highlights from the first 8 months of Perseverance's exploration, with a focus on images and scientific results from the rover's Mastcam-Z multispectral cameras.

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

November 9: Kathy Troost and Masters Students, UW, Presenting on a local research project

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.

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

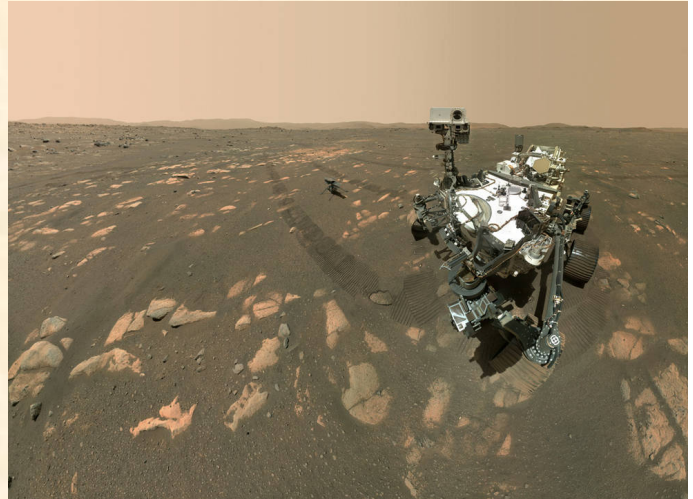
Contact webmaster [Julie Masura](mailto:Julie.Masura@nwgs.org) if you have any announcements to post on the website.

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.
- NWGS will be launching the new webpage this month with a new look and streamlined navigation. Be sure to check it out at www.nwgs.org!
- 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., Oct. 12, 5:30pm via Zoom.

NWGS needs great people like YOU!

Photo Spotlight



NASA's Perseverance Mars rover took a selfie with the Ingenuity helicopter, seen here about 13 feet (3.9 meters) from the rover. This image was taken by the WATSON camera on the rover's robotic arm on April 6, 2021, the 46th Martian day, or sol, of the mission. Credits: NASA/JPL-Caltech/MSSS.

About NWGS

The [Northwest Geological Society](http://www.nwgs.org) 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](http://www.nwgs.org), 4616 25th Ave NE #397, Seattle, WA. 98105. Please include your name, address, home phone, email, and employer/affiliation (if any).

Recommended Readings

Farley et al. (2020), Space Science Reviews - Mission Overview:

https://link.springer.com/epdf/10.1007/s11214-020-00762-y?sharing_token=xqHaNJhfZeOoTzCFr0_X8ve4RwlQNchNBiy7wbcMAY5oSdDD0oR4QhUyiu9uhnRwLeeh4jajxal_s6E8Fw8wbC1HNQbCuPMCe2g1xYWcqGMkkMx6gzV4QK-RuxlsBxz0QQofFPaHGTYAprOHykKbWB-wZG2qy6Z09nOrv9ykZE%3D

Bell et al. (2020), Space Science Reviews - Mastcam-Z Instrument Description:

<https://mastcamz.asu.edu/the-mastcam-z-filter-set-how-perseverance-will-see-the-colors-of-mars/>

Lakdawalla & Rice (2021), Mastcam-Z blog post: <https://mastcamz.asu.edu/the-mastcam-z-filter-set-how-perseverance-will-see-the-colors-of-mars/>

Please send your reading recommendations to Newsletter Editor [Tom Bush](mailto:tom.bush@nwgs.org).

To report a change of email or postal address or request to be removed from mailings, notify Membership Chair [George Bennett](mailto:george.bennett@nwgs.org). Questions or comments? Contact President [Chris Kimmel](mailto:chris.kimmel@nwgs.org).

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