

NORTHWEST GEOLOGICAL SOCIETY

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

May, 2025 Newsletter Volume 39, Number 4

May 13 Program Speaker

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

Speaker: Baptiste Journaux, Assistant Research Professor, University of Washington

Title: Ice in its many forms as some of the most important minerals on Earth, in our solar system and beyond

Abstract: Is ice a mineral? Yes, and perhaps one of the most significant minerals in the universe. The diverse crystalline phases of water and their profound global impacts at planetary scales challenge the prevalent earth-centric perspective that often overlooks the frozen form of water, or H_2O . In this presentation, I aim to provide an overview of the mineralogical and physical uniqueness of ice(s) and their role in shaping Earth and other planetary bodies within our solar system and beyond.

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/meetingregistration/) by the Thursday prior to the meeting.

Catered menu: Seafood Alfredo (gluten free and dairy free available), chicken and sausage gumbo, vegan gumbo, steamed white rice, vegan dirty rice, jambalaya, appetizers and dessert included.

Location: Fauntleroy YMCA next to the Fauntleroy 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

Fall FT: TBD Oct 14: TBD Nov 11: Kathleen Goodman, WSP, Ophiolites on Cypress Island. Dec 9: TBD Jan 13: TBD Feb 10: TBD Mar 10: TBD If you would like to volunteer to give a talk or lead a field trip for NWGS, please contact President David Boyer.

Announcements

• Jackson Lundgren, licensed geologist with Associated Earth Sciences, Inc. of Kirkland, has been approved by the Board of Directors as the incoming **President Elect**. Jackson received his BS in geology from WWU in 2017 and recently moved to West Seattle. When not working he enjoys agate hunting, gardening, volunteering, fishing, film photography and woodworking. Congratulations, Jackson, and thanks!

Several Board members are still seeking replacements, including Secretary, Treasurer, and Newsletter Editor. Please contact President <u>David</u> <u>Boyer</u> or the Board member directly for more information. <u>Shared governance is critical</u> for the continued viability of our organization.
Next Board of Directors meeting: Tuesday, <u>May 20</u>, 6:00 pm via Zoom. Members are welcome to attend. Please email nwgs.secretary.com for the Zoom link.

Photo Spotlight

Inferred internal structure for Titan, assuming the upper ice-rich crust is thinner than 100 km. Thicker

ice crusts imply a colder ocean and the presence of ice V. (From Journaux, 2020A.)

About NWGS

The <u>Northwest Geological Society</u> 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 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 talkonly: free).

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 <u>NWGS website</u>, or visit our website for more details. We look forward to seeing you soon!

Recommended Readings

Journaux, B. Salty ice and the dilemma of ocean exoplanet habitability. *Nat Commun* **13**, 3304 (2022). https://doi.org/10.1038/s41467-022-30799-2

Journaux, B. et al., Holistic Approach for Studying Planetary Hydrospheres: Gibbs Representation of Ices Thermodynamics, Elasticity, and the Water Phase Diagram to 2,300 MPa. Journal of Geophysical Research: Planets 125, e2019JE006176 (2022A).

Journaux, B. et al. Large Ocean Worlds with High-Pressure Ices. Space Science Reviews 216, (2020B).

Please send your reading recommendations to Newsletter Editor Tom Bush.

To update your account information,, go to <u>NWGS.org/membership</u>. Questions or comments? Contact President <u>David Boyer</u>.

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