

## NORTHWEST GEOLOGICAL SOCIETY

A regional association of professionals, students & others interested in geology
Please browse <a href="https://www.nwgs.org">www.nwgs.org</a> for more about us



## May 2013 Newsletter

Volume 27. Number 5



Symposium registration here

## Second Symposium Edition, May 3, 4, 5, University of Washington

# Second Symposium: The Paths Ahead for Northwest Geosciences Complete Symposium Website

Friday, May 3: Appreciation Dinner, Washington Club, University of Washington Seattle. Coat and tie dress code.

Saturday, May 4: All-Day Symposium, University of Washington Seattle, Kane Hall. Speaker program:

ERIC S.CHENEY, Earth and Space Sciences, U. Washington, Current revolutions in public concepts of mineral and fuel resources and paths ahead.

JOHN R. SHIVELY, Pebble Limited Partnership, AK, *Pebble—The Challenge of developing the world's largest copper prospect.*DEBORAH S. KELLEY, School of Oceanography, U. Washington, *Underwater eruptions and subsurface life on the largest active volcano off the Washington coast: Axial Seamount.* 

STEVEN D. VANCE, Jet Propulsion Lab, Caltech, Constraints of the habitability of Europa and Ganymede through time from chemistry and ocean dynamics.

BRITTANY D. BRAND, Geosciences, Boise State Univ., Pyroclastic density currents from the May 18<sup>th</sup>, 1980 eruption of Mt. St. Helens—the story retold.

DAVID H. MCCORMACK, Aspect Consulting, Seattle, Boring in Seattle—insights from deep tunnel projects on Puget Lowland stratigraphy, glacial processes, landform development, and tectonics.

KATHARINE R. HUNTINGTON, Earth and Space Sciences, U. Washington, Reconstructing paleotemperature using clumped isotopes in soil carbonate from the Andes and the Pacific Northwest.

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MURRAY M. JOURNEAY, Earth Sciences Sector, Natural Resources Canada, B.C., A community-based approach to disaster resili-

ence planning.
BRAIN F. ATWATER, U.S. Geological Survey at Earth and Space Sciences, U. Washington, Geologic reconstruction of earthquake and tsunami history.

RALPH A. HAUGERUD, U.S. Geological Survey at Earth and Space Sciences, U. Washington, Stories from shapes.

BRIAN L. SHERROD, U.S. Geological Survey at Earth and Space Sciences, U. of Washington, *Prehistoric Earthquakes in central and western Washington*.

DAVID R. MONTGOMERY, Earth and Space Sciences, U. Washington, A mega-slide on Mars, the largest landslide in the solar system?

Sunday, May 5: Field Trip, Geology of Fidalgo Island, Eric Cheney, Prof. Emeritus, UW Earth & Space Sci. FULL.

<u>Saturday, May 18</u>: Field Trip, *Geology of Fidalgo Island*, Eric Cheney, Prof. Emeritus, UW Earth & Space Sci., \$70/member (the field trip is *not* part of the symposium so is open to members only).

#### DONATE TO THE SYMPOSIUM HERE!

Your tax-deductible financial support of this event is greatly appreciated. No amount is too small!

#### SYMPOSIUM REGISTRATION:

Friday, May 3 Appreciation Dinner: \$45/person, 6:30 P.M.

no-host social hour, 7:30 P.M. dinner followed by program (location map).

Saturday, May 4 All-Day Symposium: \$40/member, \$50/nonmember, \$20/guest, \$20/student

(location map). 7:30 A.M. on-site registration; 8:15 A.M. symposium; 6:00 P.M. reception.

Sunday, May 5 Field Trip: FULL.

**Saturday, May 18 Field Trip:** Contact Field Trip Coordinator <u>Kathleen Goodman</u> to register immediately (only a few spots remain as of this writing). **Members only**.

## **Upcoming Speakers and Field Trips**

Fall Field Trip: TBA

October 8: Dr. Brian Collins, UW ESS Dept. Lecturer, River history project at UW.

November 12: Dave Montgomery, UW ESS Dept. Professor, Mega-floods.

December 10: Eric Cheney, UW ESS Dept. Emeritus Professor, Geology of NE Washington.

If you would like to volunteer to give a talk or lead a field trip for NWGS, please contact President Kathy Troost.

## Announcements

- Kathleen Goodman has agreed to be the new Field Trip Coordinator. Thanks Kathleen!
- AEG Washington Section is hosting the 2013 AEG Annual Meeting to be held at the Westin in Seattle, September 8-15, 2013. The section is celebrating 50 years in existence. Go to aegweb.org for details about the meeting: field trips, short courses, technical sessions, events, and to register.
- Belt Symposium V: the 5th decadal symposium on the Belt Supergroup will be held jointly with the 38th Annual Field Conference of the Tobacco Root Geological Society (TRGS) in Salmon, Idaho, July 31-August 4, 2013, with a pre-meeting field trip to Glacier National Park on July 29. See the TRGS website for information and registration.
- vember 12, & December 7, 2013, 4:30 P.M., Talaris Conference Center.

YOU would like to be involved!

## **Photo Spotlight**



• Next Board meetings: October 8, No- Layered gabbro intruded by plagigranite dike (right), Alexander Beach, western shore of Fidalgo Island, WA., part of the Fidalgo Island ophiolite complex (student for scale). Graded beds dip to the left (northerly). Note the abundance of veinlets. This ophiolite is part of one of numerous accreted terranes in the Northwest Cascades nappes that underlie the San Juan Islands and northern Puget Lowland. Photo by T. Bush, 1993 (unfortunately, locality is no longer accessible).

#### **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 geolog-Pacific topics, the Northwest emphasizing those fundamental scientific interest. YOU would like to be involved!

Program meetings: 2<sup>nd</sup> 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: \$30; Student: \$5. To join or pay annual dues: send a check payable to NWGS to Secretary Dan Smith, 10203 40<sup>th</sup> Ave SW, Seattle, WA. 98146. 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

Brazelton, W.J., Schrenk, M.O., Kelley, D.S., Barros, J.A.,, 2005, Methane and sulfur metabolizing microbial communities dominate in the Lost City Hydrothermal Vent ecosystem, Appl. Enviro. Microbiol., vol. 72, no. 9, pp. 6257-6270, DOI: 10.1128/ AEM.00574-06.

Brand B.D. and Clarke, A.B., 2012, An energetic basaltic phreatomagmatic eruption at the Table Rock Complex in south-central Oregon (USA): Using deposit characteristics to constrain surge dynamics, Journal of Volcanology and Geothermal Research, vol. 243 -244, p. 81-90.

Montgomery, D. R., 2007, Dirt: The Erosion of Civilizations, University of California Press, Berkeley, 285 p.

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 Secretary Dan Smith at 206.937.5313. Questions or comments? Contact President Julie Masura.

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