



NORTHWEST GEOLOGICAL SOCIETY

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



April 2013 Newsletter

Volume 27, Number 4



April 9 Program Speaker

Speaker: Dr. Tony Irving, Affiliate Professor, UW Department of Earth and Space Sciences (ESS)

Title: Forensic science of meteorites: Samples from other planets and asteroids

Abstract:

Lots of extraterrestrial material liberated by energetic impacts onto other bodies in the inner solar system falls onto the Earth frequently.

Most is lost in the oceans or never found in wooded temperate regions, but more and more is being recovered in hot and cold deserts. Although the majority of meteorites are chondrites derived from various asteroids located between Mars and Jupiter, scores of achondrite specimens from the Moon and from Mars (and even one perhaps from Mercury) are now known. The (geo)chemical testing of these diverse and fascinating rocks makes for a script worthy of "CSI Solar System".

5:30pm: No-host social hour

6:30pm: Buffet dinner

7:30pm: Speaker program

All are welcome to attend – reservations are required if coming for dinner.

► [Reservations here](#)



PROGRAM DINNER RESERVATIONS: NWGS members: **\$40**; Non-members: **\$45**; Full-time students : **\$20**. \$45 for LATE REGISTRATION. Make your reservation and payment on-line at www.nwgs.org (or mail your payment to *Northwest Geological Society, 4616 25th Ave NE #397, Seattle, WA. 98105* (must be received by Thursday prior to meeting)). Contact [Dan Smith](mailto:Dan.Smith@uw.edu) at 206-937-5313 or nwgeo@yahoo.com.

If attending the speaker program only, a \$5 voluntary donation to help defray the meeting room cost is requested.

Location: Pacific Dining Hall at the [Talaris Conference Center](#), 4000 NE 41st St., Seattle, WA. Ph 206-268-7000. **Directions:** See [on-line directions with map](#), or: from I-5 northbound or southbound in Seattle, take Exit 168B (NE 45th St.). Drive east on NE 45th St. past UW down the hill and past University Village. Turn south (right) onto Mary Gates Memorial Drive at the 5-way intersection. MGM Drive will curve east (left) and become NE 41st St. Continue several blocks to the [Talaris Conference Center](#) entrance on the north (left) side. We meet in the Pacific Dining room on the left.

Upcoming Speakers and Field Trips

May 3-5: Second NWGS Symposium. See more in the *Announcements* section on the next page.

Spring Field Trip: May 5, Eric Cheney, UW ESS, Fidalgo Island (field trip associated with the Second NWGS Symposium).

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](#).

Please see the [NWGS website](#) for detailed announcements.

Contact webmaster [Julie Masura](#) if you have any announcements to post on the website.

Announcements

- Thanks to **Grace Winer** for the new *colorized* version of the NWGS logo on page 1!
- The **Second NWGS Symposium, *The Paths Ahead for Northwest Geosciences*** is scheduled for **May 3-5, 2013** at the University of Washington:
 - * **May 3:** dinner for speakers, past & present NWGS officers, & organizing committee members;
 - * **May 4:** symposium main event at Kane Hall, UW, with 11 speakers, coffee service, lunch, and reception afterwards;
 - * **May 5:** symposium field trip to Fidalgo Island led by Eric Cheney, UW Dept. of Earth and Space Sciences;
 - * Please contact [Dave McCormick](#) (206-838-5834) if you would like to **contribute to the symposium as a sponsor**;
 - * Details are posted at [NWGS website](#).
- Next **Board meeting:** April 9, 4:30 P.M., Talaris Conference Center.

YOU would like to be involved!

Photo Spotlight



A dark stone from the 2008 Almahata Sitta ureilite fall in the Nubian Desert, Sudan. Photo submitted by Tony Irving.

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 geologic topics, emphasizing those of the Pacific Northwest of fundamental scientific interest.

YOU would like to be involved!

Program meetings: 2nd 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 40th 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

Korotev, R. L., Zeigler, R., Jolliff, B., **Irving, A. J.** and Bunch, T. (2009) Compositional and lithological diversity among brecciated lunar meteorites of intermediate iron content. *Meteoritics and Planetary Science* 44, 1287-1322.

Kleine, T., Hans, U., **Irving, A. J.** and Bourdon., B. (2012) Core formation in growing protoplanets and a model of the angrite parent body. *Geochimica et Cosmochimica Acta* 84, 186-203.

Walton, E.L., **Irving, A. J.**, Bunch, T. E. and Herd, C. D. K. (2012) Northwest Africa 4797: A strongly shocked ultramafic poikilitic shergottite related to intermediate Martian meteorites. *Meteoritics and Planetary Science* 47, 1449-1474.

International Meteorite Collectors Association Website on Martian Meteorites: <http://www.imca.cc/mars/martian-meteorites.htm>.

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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