

SCOTT S. HUGHES, PROFESSOR AND CHAIR

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Research and Teaching Interests:

- Volcanology
- Planetary Geology
- Environmental Geology
- Geochemistry

Education:

- Joined I.S.U. Faculty in 1991
- Ph.D., 1983, Oregon State University
- M.S., 1979, Northern Arizona University
- B.S., 1972, Virginia Tech



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Idaho Volcanism:

(1) Physical volcanology, geochemistry, and petrogenesis of mafic eruptive centers on the eastern Snake River Plain; (2) Geomorphology of eastern Snake River Plain analogues to Mars and Lunar volcanism; (3) Geochemistry and field geology of volcanic systems in south-central Idaho.

Volcanism and Tectonism in the Pacific Northwest:

Geochemistry of Columbia River basalt feeder dikes in northeastern Oregon and western Idaho.

Continental Evolution:

Geochemistry of deep crust massifs in the Appalachian Blue Ridge anticlinorium of Virginia.

Recent Publications:

Hughes, S.S., Lewis, S.E., Bartholomew, M.J., Sinha, A.K., and Herz, Norman, 2004, Geology and geochemistry of Fe-Ti-rich granitic and charnockitic rocks in the central Lovington massif of the Grenvillian Blue Ridge terrane, U.S.A, in Tollo, R.P., Corriveau, L., McLelland, J., and Bartholomew, M. J., eds., Proterozoic Tectonic Evolution of the Grenville Orogen in North America: Boulder Colorado, Geological Society of America Memoir no. 197, p. 549-569.

Hughes, S.S., McCurry, Michael, and Geist, D.J., 2002, Geochemical correlations and implications for the magmatic evolution of basalt flow groups at the Idaho National Engineering and Environmental Laboratory, in Link, P.K., and L.L. Mink, eds., Geology, Hydrogeology and Environmental Remediation, Idaho National Engineering and Environmental Laboratory, Eastern Snake River Plain: Geological Society of America Special Paper 353, p. 151-173.

Geist, Dennis, Sims, Elisa, Hughes, Scott, and McCurry, Michael, 2002, Open-system evolution of a single cycle of Snake River magmatism, in Link, P.K., and L.L. Mink, eds., Geology, Hydrogeology and Environmental Remediation, Idaho National Engineering and Environmental Laboratory, Eastern Snake River Plain: Geological Society of America Special Paper 353, p. 193-204.

Hughes S.S., P.H. Wetmore, and J.L. Casper, 2002, Evolution of Quaternary tholeiitic basalt eruptive centers on the eastern Snake River Plain, Idaho, in Bonnicksen, B., White, C., and McCurry, M., eds., Tectonic and magmatic evolution of the Snake River Plain volcanic province: Idaho Geological Survey Bulletin 30, p. 363-385.

Hughes S.S. and M. McCurry, 2002, Geochemical evidence for time-space evolution of Snake River Plain rhyolites, in Bonnicksen, B., White, C., and McCurry M., eds., Tectonic and magmatic evolution of the Snake River Plain volcanic province: Idaho Geological Survey Bulletin 30, p. 161-176.

Davis, L.L., Hughes, S.S., and Fleisher, Chris, 2001, Characterization of an alkali alumina-borosilicate glass considered for storage of radioactive waste: *Environmental Geology*, vol. 40, no. 7, p. 829-846.

Hughes S.S., R.P. Smith, W.R. Hackett, and S.R. Anderson, 1999, Mafic volcanism and environmental geology of the eastern Snake River Plain, in Hughes, S.S., and Thackray, G.D., eds., *Guidebook to the Geology of Eastern Idaho: Idaho Museum of Natural History*, p. 143-168.

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