

Timothy J. Walsh

Relevant Experience

Assistant State Geologist and Assistant Division Manager, Washington Geological Survey-2/ 2016—Present; Chief geologist and manager, Geologic Hazards Section—9/1988-1/2016; Staff Geologist—3/1980-8/1988

Washington Department of Natural Resources
Division of Geology and Earth Resources

Adjunct Professor in Geology

South Puget Sound Community College, 1986-present

Licensed Engineering Geologist #355, State of Washington, 2002-present

Skills

Project management

- Planned, organized, and directed numerous projects; obtained external grants; managed contract compliance

Geologic hazard evaluations

- Evaluated earthquake induced-liquefaction susceptibility for various quadrangles in Puget Sound area; investigated liquefaction triggered by the 1964 Alaska earthquake
- Evaluated tsunami hazards and assisted in the development of tsunami evacuation planning for at-risk communities on the outer coast, Strait of Juan de Fuca, and within Puget Sound
- Mapped landslide hazards in watersheds in Cascade foothills

Geologic mapping

- Detailed mapping in King, Mason, Pierce, and Thurston Counties, Washington; Los Angeles and Inyo Counties, California; reconnaissance mapping in Columbia Basin, North Cascades, and throughout western Washington

Committee assignments

- Western States Seismic Policy Council (Washington State representative, 1990-present)
- Cascadia Regional Earthquake Workgroup (CREW) (member board of directors and treasurer, 1996-present)
- Washington Seismic Safety Committee, 1996-present
- National Tsunami Hazard Mitigation Steering Committee (founding member, Washington State representative, 1995-present)
- Railroad Landslide Mitigation Work Group, WSDOT, 2013-present

Professional Affiliations

- American Geophysical Union
- Association of Engineering and Environmental Geologists
- Geological Society of America
- American Association for the Advancement of Science
- Earthquake Engineering Research Institute

Education

- B.S., M.S. Geology, UCLA, 1976, 1979
- Graduate, Washington State Career Executive Program (1991-1993)

Timothy J. Walsh Some Relevant Publications

- Walsh, Timothy J.; Korosec, M.A.; Phillips, William M.; Logan, Robert L.; Schasse, Henry W. , 1987, Geologic map of Washington--southwest quadrant: Washington Division of Geology and Earth Resources Geologic Map GM-34, 2 plates, scale 1:250,000, 19p.
- Walsh, Timothy J.; Combellick, Rod A.; Black, Gerald L., 1995, Liquefaction features from a subduction zone earthquake: preserved examples from the 1964 Alaska earthquake: Washington Division of Geology and Earth Resources Report of Investigations 32, 80 p.
- Rogers, A.M.; Walsh, Timothy J.; Kockelman, William J.; Priest, G.R., editors, 1996, Assessing earthquake hazards and reducing risk in the Pacific Northwest: U.S. Geological Survey Professional Paper 1560, vol. 1, p. 1-306.
- Gerstel, Wendy J.; Brunengo, Matthew J.; Lingley, William S., Jr.; Logan, Robert L.; Shipman, Hugh; Walsh, Timothy J., 1997, Puget Sound bluffs: the where, why, and when of landslides following the holiday 1996/97 storms: Washington Geology, vol. 25, no.1, p. 17-31.
- Walsh, Timothy J.; Caruthers, Charles G.; Heinitz, Anne C.; Myers, Edward P., III; Baptista, Antonio M.; Erdakos, Garnet B.; Kamphaus, Robert A., 2000, Tsunami hazard map of the southern Washington coast--Modeled tsunami inundation from a Cascadia subduction zone earthquake: Washington Division of Geology and Earth Resources Geologic Map GM-49, 1 sheet, scale 1:100,000, with 12 p. text.
- Sarikhan, Isabelle Y.; Walsh, Timothy J., 2005, Landslide hazard zonation project--Mass wasting assessment--Spada Lake watershed: Washington Department of Natural Resources, Forest Practices, 28 p., 2 plates, scale 1:24,000.
- Walsh, Timothy J.; Schelling, John D., 2011, Washington State School Seismic Safety Pilot Project--Providing safe schools for our students: Washington Division of Geology and Earth Resources Open File Report 2011-7, 14 p.
- Cakir, Recep; Walsh, Timothy J., 2012, Loss estimation pilot project for lahar hazards from Mount Rainier, Washington: Washington Division of Geology and Earth Resources Information Circular 113, 17 p.
- Slaughter, Stephen L.; Walsh, Timothy J.; Ypma, Anton; Stanton, Kelsay M.D.; Cakir, Recep; Contreras, Trevor A., 2013, Earthquake-induced landslide and liquefaction susceptibility and initiation potential maps for tsunami inundation zones in Aberdeen, Hoquiam, and Cosmopolis, Grays Harbor County, WA, for a M9+ Cascadia Subduction Zone Event: Washington Division of Geology and Earth Resources Report of Investigations 36, 39 p.