



Todd Lau, L.G.

Hazards Geophysicist

I am a geophysicist working in Geologic Hazards. Most of my work revolves around active fault mapping. I use potential fields to map geologic structures to support our mapping geologists' interpretation of the subsurface. I maintain a passive seismic array across the State that detects ground movement associated with earthquakes. I use all of this information to model the subsurface in an attempt to better understand geologic structures. I also help manage the geologic laboratory and assist with geochemical problems.

Job Responsibilities

Field work, geophysical data acquisition, technical support, public outreach, geologic modeling, laboratory management, XRD analysis, geophysical data archiving, and database design.

Professional Interests

Washington geology, potential fields, geophysics, geologic hazards, analytical geochemistry, mineralogy, planetary science, volcanology.

Skills

ArcGIS, wilderness first aid, chain saw basic use, Oasis Montaj, GM-SYS, X-Ray Diffraction (XRD), X-Ray Fluorescence (XRF), Flame Atomic Absorption Spectroscopy (FAAS), LA-ICPMS, quantitative wet chemical techniques.

Professional Experience

- Geophysicist, Washington Geological Survey, Olympia, WA
- Senior Chemical Technician, Asarco, LLC, Tucson, AZ

Education

- B.S. Geology, University of Wisconsin-Eau Claire, WI
- B.S. Chemistry, University of Wisconsin-Eau Claire, WI

Personal Interests

Backpacking, camping, cooking, pottery, gardening, collecting vinyl, seeing live music, rock climbing, fishing, kayaking, spending time in the woods.

