



Hydrogeochemical Analysis of Contaminated Pacific Northwest Waters, Sediments, and Soils

SOIL 503(3 Credits), June 26- July 20, Summer 2017

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- *Environmental analytical techniques are the primary means by which we monitor environmental states and processes and validate models of these processes. We will familiarize students with several modern analytical methods and instruments used in environmental/ hydrogeochemical/ biogeochemical explorations applicable to advanced studies and modeling essential to a variety of professional careers.*
- *Students will apply and/or we will demonstrate various analytical techniques and methods to determine both inorganic and organic contaminants in environmental samples collected from sites in the Pacific Northwest.*
- *An ICP-MS instrument will be used to determine inorganic contaminants (toxic metals) in aqua regia (hot plate & microwave) digests of soils and sediments. For organic contaminants (pesticide residues) we will use gas chromatography in conjunction with standard preparation methods.*