

## Researchers

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**Research Focus:** The rate that biotransformation can be expected to clean up a contaminated aquifer ultimately depends on the population of active bio-degrading microbes. Thus, my research focus is to understand the changes in microbial populations that occur when an aquifer becomes contaminated with biodegradable organic compounds. The ultimate goal is to create a mathematical model that will predict these changes.

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**Research Focus:** The rate that biotransformation can be expected to clean up a contaminated aquifer ultimately depends on the population of active bio-degrading microbes. Thus, my research focus is to understand the changes in microbial populations that occur when an aquifer becomes contaminated with biodegradable organic compounds. The ultimate goal is to create a mathematical model that will predict these changes.

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**Research Focus:** Intrinsic bioremediation. Biogeochemical processes and the formation of heterogeneous redox zones. Carbon, iron and sulfur cycling at redox zone boundaries.

**Name:** Gary Curtis                   **Affiliation:** USGS  
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**Research Focus:** Numerical simulation of reactive transport in multicomponent systems.

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**Name:** Geoff Delin                   **Affiliation:** USGS  
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**Research Focus:** Conducting collaborative research on multiphase flow processes, effects of temporal and spatial variability in recharge on the transport and degradation of oil in the unsaturated and saturated zones, and quantification of in-situ biodegradation rates of petroleum hydrocarbons in the unsaturated zone.

**Name:** Bob Eganhouse                   **Affiliation:** USGS

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**Research Focus:** Processes affecting the transformation of dissolved and particulate organic matter in ground water and sediment. Use of molecular markers to partition sources of organic contaminants, determine microbial community composition, and elucidate physical and biogeochemical processes. Transport and fate of volatile and non-volatile dissolved organic matter in contaminated ground water.

**Name:** Hedeff Essaid                   **Affiliation:** USGS

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**Research Focus:** Transport of immiscible contaminants and simulation of multiphase flow and biodegradation, and vapor phase transport.

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**Research Focus:** Research coordinator and conducting research on multiphase flow processes, spatial variability of ground-water recharge in relation to solute transport unsaturated zone instrumentation, and multiphase sampling techniques.

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**Name:** Derek Lovley      **Affiliation:** University of Massachusetts at Amherst  
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**Research Focus:** Contaminant degradation processes associated with the microbial reduction of Fe(III) are potentially very important mechanisms in the natural attenuation of petroleum hydrocarbon spills. Investigations into factors affecting contaminant degradation under Fe(III)-reducing conditions have demonstrated ways to stimulate iron reduction in situ and may ultimately lead to an alternative remedial technique for the restoration of contaminated sediments.

**Name:** Jeff Lucius      **Affiliation:** USGS  
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**Research Focus:** Geophysics provides methods to non-invasively study the subsurface. Ground penetrating radar (GPR) has been used at the site to define the geologic framework and petroleum distribution. Previous work (1984-1990) collected GPR data on a 20-meter grid over most of the site. Proposed GPR work will collect detailed data (suitable for 3D processing) directly over the oil pools to better define their boundaries and the sedimentary structure above them.

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**Research Focus:** Contaminant degradation processes associated with the microbial reduction of Fe(III) are potentially very important mechanisms in the natural attenuation of petroleum hydrocarbon spills. Investigations into factors affecting contaminant degradation under Fe(III)-reducing conditions have demonstrated ways to stimulate iron reduction in situ and may ultimately lead to an alternative remedial technique for the restoration of contaminated sediments.

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