Poster Presentation
Trace Analysis in Local Stream Water
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Water samples are collected from a local creek using a consistent and effective method. Three replicates of each sample location are collected to provide a representative sample. Polypropylene bottles are rinsed three times with the surface water at the sample location before transferring the sample back to the lab and stored at 33°F. Also at each sampling location, various parameters are recorded and logged. We test for ambient temperature, water temperature, water conductivity, pH of the water, and depth of the sample location each time samples are collected. The ecosystem surrounding freshwater creeks such as Kiljordan Creek in Macomb, IL can be effected by common pesticide toxins from various sources. Our lab is working on a method to detect possible traces of common pesticides in our water samples. One such method includes separation of analytes by high performance liquid chromatography (HPLC).