



CHEMISTRY DEPARTMENT SEMINAR

Chemistry's Role in a Systems Approach to Addressing Environmental Challenges

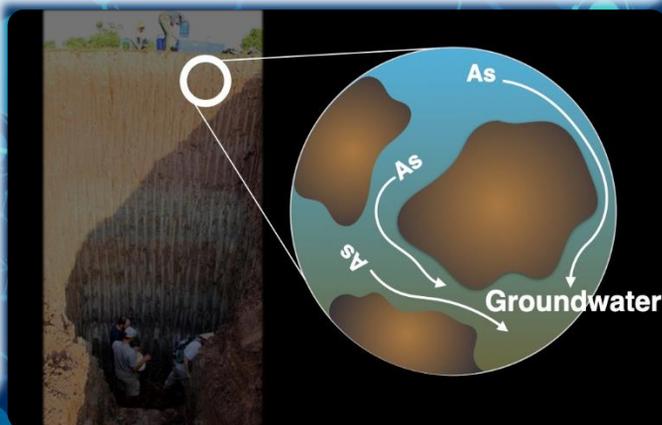
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I am not a trained chemist, but I use chemistry extensively in research that addresses environmental problems related to soil carbon stability, groundwater contamination, and drinking water treatment. In this presentation, I will provide examples of how I use chemistry as a tool and as part of a systems approach to challenges related to naturally occurring groundwater contamination and household safe

drinking water treatment. Specifically, I will give examples of how changes in hydrology due to natural and human causes impact metals contamination in groundwater through changing redox conditions. I will also give an example of unintended consequences of water treatment interventions, and how chemistry is essential for understanding and mitigating negative impacts and limiting contaminant exposure to humans. Finally, I will reiterate the importance of systems thinking and collaboration across disciplines to solving environmental challenges.



August 26th @12 pm – Lopez 106

Meeting ID: 951 3765 0274

<https://zoom.us/j/95137650274>