

Title- New approaches to studying the sulfate reduction metabolism using sulfur and oxygen isotopes.

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Abstract- This talk will explore recent insights into the sulfur metabolism that can be obtained using sulfur and oxygen isotopes. We will examine how information about the structure of the metabolic pathways and the magnitude of isotope effects associated with the pathways can be obtained from isotopic measurements using coupled isotope systems and how isotope effects that we refer to as mass-conservation effects are relevant in these systems and in other biogeochemical systems.