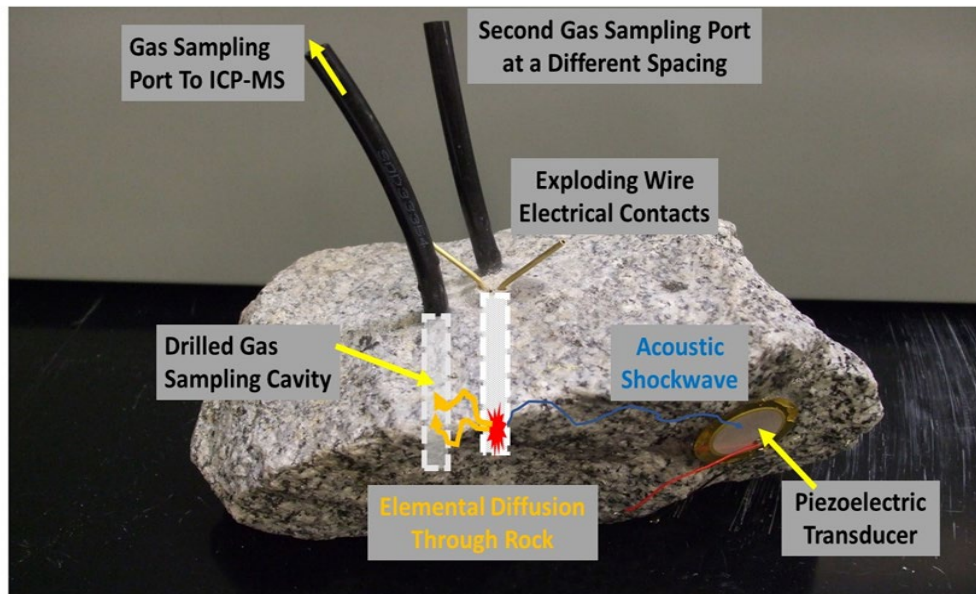
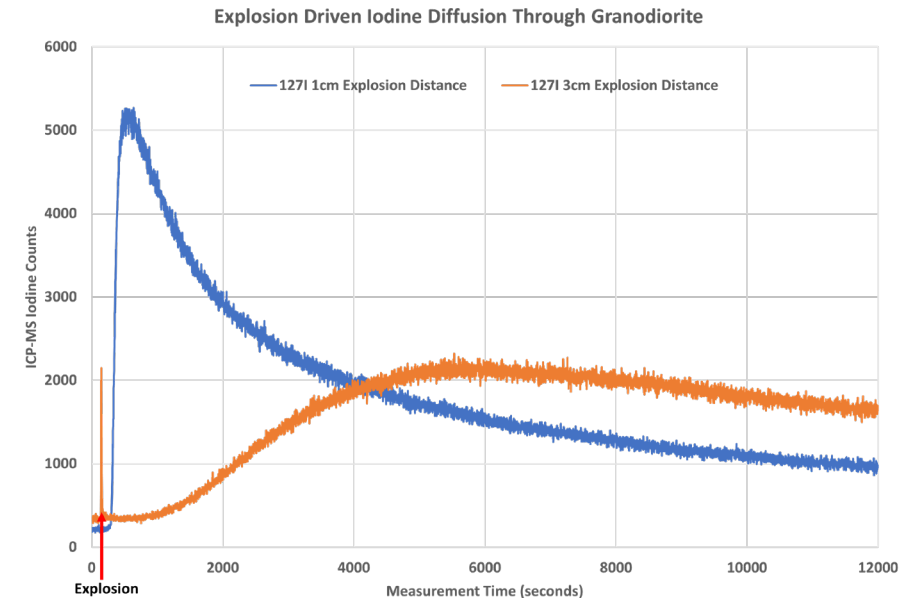


Geologic properties influence movement of elements in explosion debris. Through bench-scale explosions, we are exploring how different geology types could change remotely-measured signatures like the ratio of xenon isotopes from an explosion.

Exploding Bridge Wires (EBW) can be used to mimic the effects of explosions on materials. The thermal explosive shock from an EBW causes release of elements within the rock, that may not otherwise be released into the atmosphere.



Exploding Wire Embedded in Rock



Migration through granodiorite is shown with iodine counts at two distances – 1 cm and 3 cm.