Earth Sciences

Colloquium Series

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The Unexpected Geology of Mars: New Discoveries from Rovers and Meteorites

Abstract

Mars has a complex geological history that continues to challenge our understanding of the Red Planet. Recent discoveries from NASA's Perseverance rover and studies of martian meteorites are revealing unexpected rock types, minerals, and geological processes that provide new insights into the planet's evolution and past habitability. In this talk, I will highlight our recent findings from the Perseverance rover, including the identification of potential biosignatures in Jezero crater. I will also discuss new results from martian meteorites, including my discovery of a previously unrecognized garnet-bearing lithology on Mars. Together, these findings demonstrate how complementary rover observations and meteorite analyses are reshaping our understanding of the planet's geological history and habitability potential.



Date: Friday November 20, 2026

Time: 1:30 pm

Location: BGS 0153

Coffee and Timbits will be served.