My current research interests focus on applied sedimentology and Earth System Science.  

- What does the sedimentary record tell us about the Earth’s 4+ billion year history of life and environmental change? How does that record inform our current environmental world view? 
- How can humanity use sedimentary deposits to sustain itself? (e.g., Carbon Capture and Storage)

Most of my current and previous research integrates/integrated geological, geophysical, geochemical and engineering data and concepts. Inasmuch as possible/appropriate, I integrate computer-based methods (e.g., machine learning) into my research.

Selected Recent Publications

- Hart, B.S., and Cooper, S.P., 2021, Mechanical stratigraphy in Mesozooic rocks of the San Juan Basin: Integration of stratigraphic and structural terms and concepts. The Mountain Geologist, 58, 159-204.