

# Additive Manufacturing of Iron and Steel Derived from Lunar Regolith: Tests on Reduced Simulant and Analog Alloys

*P. E. Corwin, Colorado School of Mines*

- Pioneer Astronautics SBIR - Moon to Mars Oxygen and Steel Technology (MMOST)
  - Raising TRL of hydrogen reduction to produce iron from lunar regolith
  - Talk on Thursday
- Characterization of MMOST material
- Analog material selection
  - ER70S-3
  - Hot briquetted iron - cast and drawn to wire
- Wire arc additive manufacturing (WAAM)
  - Walls
  - Components
- Samples on display in the *Hardware and Materials Showcase*

