

**Centennial Honors College
Thomas E. Helm Undergraduate Research Day 2024**

ABSTRACT

Major: Chemistry

Poster

Faculty Mentor(s): Brian Bellott

Exploration of FeS by Solid State Synthesis

Remi Irwin

The ratio of FeS is explored to determine if any materials can be synthesized via solid state methods. The process involves mixing iron and sulfur in the ratio provided in a reaction vessel. The vessel is sealed under vacuum and then heated in a computer controlled furnace for several days at high temperature. After the time is up the vessel is broken and the contents examined. The contents of the reaction vessel will be the focus of this presentation.