

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

**ABSTRACT**

Major: Chemistry

Poster

Faculty Mentor(s): Brian Bellott

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**Solid State Synthesis of FeS for use in an Education Setting**

**Exavie Stivalet**

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Solid state synthesis is a common method for the production of many useful materials such as LED screens, computer components, and thermoelectric devices. The process involves mixing materials in a reaction vessel and heating them to high temperatures. Even though this technique is frequently used in an industrial setting, few teaching labs are available for students to experience this method prior to graduation. The purpose of this work is to explore the solid state synthesis of FeS to determine if it is a suitable candidate for an education lab.