

# 2025 Student Research Symposium



## Poster Presentation 3

Friday, April 25, 10am-12pm, OSL Area, Skeen Library

SRS Number:	Project Title:	Presenter(s):
SRS2025-002	Trap-Neuter-Release is Outdated, Trap-Neuter-Vaccinate-Adopt is an Innovation	Faith Morris
SRS2025-018	Crystal Engineering of Benzochalcodiazole Self-Assemblies with Diverse Interactions	Isabella Martinez Pruet
SRS2025-024	Strain Amplifying Mechano-Luminescent Mechanical Metamaterials	William Fawcett
SRS2025-026	Modeling the Lightning Return Stroke Using Telegrapher's Equations	Logan Baeza
SRS2025-028	Deploying and Processing Magnetometer Data: Insights from the EZIE-Mag Project	Ethan Dougherty
SRS2025-029	Determining Characteristics of Circular Piezoelectric Ceramic Sensors used in Structural Health Monitoring	Brendan Canales
SRS2025-032	Reclaiming the NMT Earth & Environmental Science Fossil Collection: New Directions for a Teaching and Outreach Resource	Elijah Henderson
SRS2025-037	Optical Interferometry Analysis of Interacting Binaries	Cameron Caruso
SRS2025-040	Attitude and Trajectory Control for Stratospheric Airships Using Multi-Actor Proximal Policy Optimization	Rongwei Liang

SRS Number:	Project Title:	Presenter(s):
SRS2025-052	Physical Digital Twin for Human Body Monitoring using Highly-Stretchable Mechano-Luminescence-Optoelectronic Strain Sensor	Jayden G. Hogue
SRS2025-061	Chitosan-Based Hydrogel Wound Dressing to Facilitate Accelerated Wound Healing	Chloe Buford
SRS2025-063	Experimental and Computational Investigation of Fireballs from C4 Detonations	Matthew Spencer
SRS2025-079	Predictive AI for Culvert Geolocations	Jamie Farrow
SRS2025-088	Combined Schlieren and Spectroscopy Techniques for Multi-Species Gas Flow Analysis	Jacob Nikolai
SRS2025-092	WIKEE Telescope	Daniel Hojnowski, Zach Goodrich, Cody Gustafson, and Broden Jepson-LaTurner
SRS2025-105	Designing the Next NMT Satellite	Alexander Williams and Michael Kaufman (Big Mike)
SRS2025-116	Feasibility of CO <sub>2</sub> Storage in Shallow Fracture Granite Reservoirs: A Reactive Transport Assessment of the SJD Site	Abdul-Malik Alhassan
SRS2025-122	A Biogeochemical Survey of Arid Soils Impacted by Depleted Uranium Munitions	Alivia Abernathy, Ashley Bradshaw, Riley Burns, Bishop Cervantes, Evita Chee, Aydan Harper, Nathaniel Jobe, Katie Johnson, Harrison Kaspar, Halie Locke, Rubin Sheldon, Charles Tetrault, Sonya Torres, Bianca Wanamaker, and Benjamin Duval
SRS2025-126	Evaluating CO <sub>2</sub> Sequestration Potential in a Depleted Gas Reservoir in the Permian Basin	Stephen Obeng
SRS2025-128	Geomechanical Numerical Modeling of the St. John's Dome Basement, Granite	Jacqueline Margaret Adjimah