

# 2025 Student Research Symposium



## Poster Presentation 4

Friday, April 25, 1-3pm, OSL Area, Skeen Library

| SRS Number: | Project Title:  | Presenter(s):   |
|-------------|---|---|
| SRS2025-013 | Batteries and Battery Storage   | Akongnwi Chungong                                     |
| SRS2025-014 | Communication and Teamwork in Virtual Reality   | Breana Silvis, Katerina Bonilla, and Rui Ping Wheaton |
| SRS2025-017 | Assessing the Feasibility of Electric Airships on Mars  | Yan Pozhanka  |
| SRS2025-034 | Exploring Regional Correlations Between Lighting and Climatological Factors in the Americas   | Lily Rich   |
| SRS2025-038 | Bio-Inspired Deployable Environmental Sensors for Real-Time Awareness: Enhancing Safety and Coordination through Autonomous Path Planning | Skyler Bunning  |
| SRS2025-042 | In Situ Heat Treatment of LPBF Printed Recycled AlSi10Mg and Computational Insights   | Timothy Nice and Brianne Boyd                         |
| SRS2025-043 | Neuromorphic Reinforcement Learning in Von Neumann Architecture: Spiking Neural Networks for Continuous Control                           | Jessica Hunter  |
| SRS2025-045 | Bio-Inspired Electrostatic Precision Landing in UAVs  | Kofi Adu Mensah                                       |
| SRS2025-055 | Dissimilar Laser Joining of Ti-6Al-4V and Inconel 625 through a Vanadium Interlayer   | Annika Bauman and Ethan Hopwood                       |

| <b>SRS<br/>Number:</b> | <b>Project Title:</b>   | <b>Presenter(s):</b>                |
|------------------------|---|-------------------------------------|
| SRS2025-057            | A Linguistic Analysis of Presidential Tweets  | Mary Pinnell                        |
| SRS2025-068            | Teaching STEM Using a Robotic Combat Kit  | Benjamin Harrington                 |
| SRS2025-069            | Flow Cytometric Analysis of Cardiovascular Disease Biomarker, Lipo-protein Phospholipase A2   | Mason Broten                        |
| SRS2025-074            | Analysis of The Socorro Magma Body  | Dylan Lovato                        |
| SRS2025-081            | Planning Follow-Up Asteroid Observations Using the Gauss Algorithm  | Charles Keller                      |
| SRS2025-111            | CO2 Sequestration In A Depleted Gas Reservoir At The Permian Basin  | Millicent Okyere Williams           |
| SRS2025-112            | Bio-Mimetic Heat Pipe   | Matthew Thomason and Hunter Belcher |
| SRS2025-123            | Fluid-Filled Sensor-Activated Biomimetic Composite for Traumatic Brain Injuries   | Timothy Junior Amevor               |
| SRS2025-127            | Hopf Bifurcations in a Mathematical Model for Economic Growth, Corruption and Unemployment:<br>Computation of Economic Limit Cycles | Ogochukwu Ifeacho                   |
| SRS2025-129            | Flexural Analysis of a Fluid-Filled Sandwich Core Composite   | Gabriel Maestas                     |