



NV Space Grant and NASA EPSCoR Statewide Meeting

March 10, 2025, at University of Nevada, Reno

Joe Crowley Student Union Ballroom BC

8:30 am	Registration
9:00– 9:15 am	Welcome
9:15 – 10:10 am	Oral research presentations: NASA EPSCoR Basic Research projects 9:15-9:30 Christos Papachristos (UNR) “Prospecting and Pre-Colonization of the Moon and Mars using Autonomous Robots with Human-in-the-Loop” 9:35-9:50 Nathaniel Rose (UNR) “Design of an Autonomous Soil Moisture Sensing Robot and Adaptive Sampling Algorithms for Resource Prospecting” 9:55-10:10 Rich Plotkin (UNR) “Nevada Multi-Messenger Astrophysics”
10:10 – 10:30 am	Break
10:30 – 11:25	Oral presentations 10:30-10:45 Anna Panorska (UNR) “Applied Data Science for graduate students and the Northern Nevada community” 10:50-11:05 Ali Tavakkoli (UNR) “A Non-Invasive Vision Screening System for Longterm Spaceflight” 11:10-11:25 Shengji Zhai (UNLV) “Beyond Earth: Advancing Human Reproduction and Immunology Responses in Microgravity and Space Radiation for Interstellar Voyages”
11:30 – 12:00	Break and get food for lunch
12:00 - 1:00 pm	Lunch and Keynote talk: Allen Herbert (formerly of Nanoracks/StarLab Oasis, CEO Space Terra Solutions) “A Space Enthusiasts Cancer Journey and the Promise of Space Cancer Research”
1:00 – 1:15 pm	Poster Session 30 sec Oral Introductions
1:15 - 3:00 pm	Student Poster Session and Networking
3:00 – 4:00 pm	Oral presentations 3:00-3:15 Huang Chen (UNLV) “Nexus of Neutronics-Thermal Fluid Analysis for Optimizing Centrifugal Nuclear Thermal Propulsion”

3:20-3:40 **Jessica Peterson** “Real-time Aerodynamic Modeling and Control of Optimum Power-off Glide Performance During Emergency Forced Landings”
3:45-4:00 **Erick Bandala** “Distance-controlled Direct Ink Writing of Titanium Alloy with Enhanced Shape Diversity and Controllable Porosity”

4:00 – 4:30 pm **NV Pathways to Success: Overview of NVSGC and NASA EPSCoR, Solicitation schedule; Progress & brainstorming to improve NV NASA Programs**

4:30 pm **Farewell**

4:40 pm **Shuttle**

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