

# ARIZONA SPACE INSTITUTE SYMPOSIUM

Monday, April 22, 2024  
ENR2 Building, Room S107

## Agenda

**8:00 – 8:30** Attendee Registration and Light Breakfast

**8:30 - 9:00** Opening Remarks

- Erika Hamden, *Director, University of Arizona Space Institute*
- Walt Harris, *Chief Scientist, University of Arizona Space Institute*
- Peter Reiners, *Interim Associate Vice President, Research Centers & Institutes*

**9:00 - 10:30** Flash Talks

- UK Space
- Jacquelyne Vega, *City of Tucson Office of Economic Development*
- Victor Tenorio, *Surface Mine Startup at the Lunar South Pole*
- Jarron Leisenring, *IR Detectors and Instrumentation at AIRD Lab*
- Nicole Melso, *Aspera Astrophysics Pioneers Mission Update*
- Chris Impey, *Unbound: Ethics, Law, Sustainability, and the New Space Race*
- Angela Marusiak, *Flight-Ready Seismometers for the Moon and Beyond*

**10:30 – 10:45** Break

**10:45 - 12:15** Flash Talks

- Sergey Shkarayev, *Mars Exploration Using Sailplanes and Balloons*
- Tinotenda Chimbwanda, *Solar-Powered Steam Injection for Lunar Ice Mining*
- Haeun Chung, *NOX: All-Sky Far-Ultraviolet background mapping with a SmallSat/CubeSat mission*
- Sarah Sutton, *The Lunar and Planetary Laboratory Photogrammetry Program*
- Roger Angel, *6.5 m space telescope successors to Euclid, Roman and Webb*
- Jekan Thangavelautham, *Advancing Lunar Pioneer Development to Enable the Future of Planetary Science and Astronomy*
- Walter Rahmer, *CatSat: A 6U Student-built CubeSat for Ionospheric Research and Technology Demonstration*

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**12:15 - 1:30**    **Networking Lunch on ENR2 Rooftop**

**1:30 - 3:00**    **Flash Talks**

- Daniel Apai, *From Alien Earths to Pandora: Integrating Studies of Habitable Worlds into Mission Definition and Science Drivers*
- Murat Kacira, *CEA for Space Farming and BLSS*
- Joseph Shields, *The Large Binocular Telescope as a Discovery Machine*
- Brittany Miles, *Spatial Variations in Atmospheric Chemistry of the Coldest Brown Dwarf*
- Clarissa DeLeon, *Complementary Software to Utilize a Generalized Open Source Radiative Transfer Algorithm*
- Fazab Abbas Awan, *Ecosystem of Low Earth Orbit: Opportunities and Challenges*
- Nina Bonaventura, *The Relationship between AGN and Host Galaxy Properties in the JWST era: A new Seyfert evolutionary sequence emerges at  $0 < z < 4$*

**3:00 – 3:15**    **Break**

**3:15 - 4:20**    **Flash Talks**

- Andrew Gardner, *Multi-Mission Operations Center*
- Alejandro Salado, *A Digital Environment to Support Multidisciplinary Work in Space Systems Engineering*
- Samantha Moruzzi, *Beneath the Ice: Constraining the Interior of Dwarf Planet Pluto with Implications for Future Exploration of Icy Objects*
- Maria Mutz, *Stable Magnetic Field Geometry: The Missing Key to Neutron Stars*
- Naomi Yescas, *Waves, Instabilities & Noise Spectrometer (WINS) for Earth's Ionosphere*
- Joseph Sepp Sprietsma, *Arizona Pathways to Prosperity*

**4:20 – 4:30**    **Closing Remarks**

- Walt Harris, *Chief Scientist, University of Arizona Space Institute*