POSTER SESSION II: INSTRUMENT CONCEPTS: ISRU, REGOLITH, AND MICROGRAVITY EXPERIMENTS
6:00 p.m. Town Center Exhibit Area

Fries M., Abell P., Brisset J., Britt D., Colwell J. et al. POSTER LOCATION #689
*Strata-1: An International Space Station Experiment into Fundamental Regolith Properties in Microgravity* [#2799]
Regolith movement / On asteroids mystifies / Test on I.S.S.

Anderson R. C., Calle C., Shoop S., Sullivan R., Buehler M. et al. POSTER LOCATION #690
*Soil Shear Properties Assessment, Resistance, Thermal, and Triboelectric Analysis (SPARTTA) Tool: A New Multitool Instrument for Identifying the Physical Properties of In-Situ Soils on Planetary Surfaces* [#2478]
SPARTTA is a deployable rover-arm mounted contact instrument that will provide a new capability for measurements of the physical properties of in-situ soils.

Pike W. T., McClean J. B. POSTER LOCATION #691
*Potential for Characterization of the Dust Threat for In-Situ Resource Utilization* [#2620]
Dust is a threat to ISRU of CO₂ on Mars. Micromachined devices may offer a way to characterize the PSD and flux with very low power and mass requirements.

Pabari J. P., Bhalodi P. J., Patel D. K. POSTER LOCATION #692
*Mars Orbit Dust Experiment (MODEX) for Future Mars Orbiter* [#1419]
A MODEX is proposed for future Mars orbiter to measure the martian dust. Modelling results show existence of dust around Mars at high altitudes.

Nørnberg P., Bak E., Finster K., Gunnlaugsson H. P., Jensen S. K. POSTER LOCATION #693
*Suggestion for a Simple Mars Rover Instrumentation Development for Future Missions* [#2523]
This paper suggests development of future instruments with the purpose of providing further information on the structure and mineralogy of martian dust grains.

John K. K., Botkin D. J., Burton A. S., Castro-Wallace S. L., Chaput J. D. et al. POSTER LOCATION #694
*The Biomolecule Sequencer Project: Nanopore Sequencing as a Dual-Use Tool for Crew Health and Astrobiology Investigations* [#2982]
Nucleic acids / Important for human health / Alien life too?

New J. S. O., Price M. C., Cole M. J. POSTER LOCATION #695
*ODIN: A Concept for an Orbital Debris Impact Detection Network* [#2054]
ODIN is a concept for a series of large area impact detectors for in situ measurements of micrometeoroids and orbital debris in the millimetre size regime.