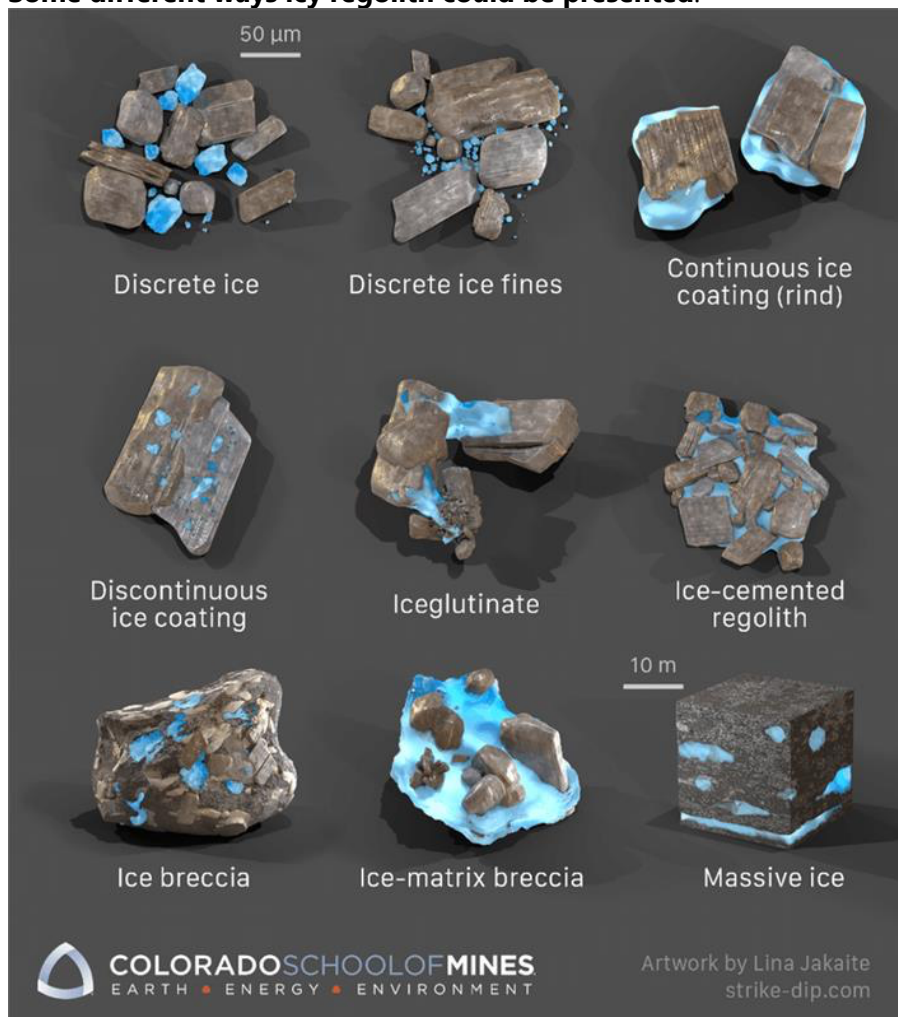


Regolith Roundtable: Best Practices and Insights for Working with Regolith in Flight Testing

Resources Submitted by Attendees in the Webinar Chat

- **A dust adhesion paper of interest:** “Adhesion of lunar simulant dust to materials under simulated lunar environment conditions”
<https://www.sciencedirect.com/science/article/pii/S009457652200340X>
- **Microgravity dust propagation modeling:** “Development of a comprehensive physics-based model for study of NASA gateway lunar dust contamination”
<https://www.sciencedirect.com/science/article/pii/S0094576523002667>
- **Suggested reading on lunar resources:** “Lunar and off Earth resource drivers, estimations and the development conundrum”
<https://www.sciencedirect.com/science/article/abs/pii/S0273117720302234>
- **Some different ways icy regolith could be presented:**



- “Development and characteristics of Mechanical Porous Ambient Comet Simulants as comet surface analogs”
<https://www.sciencedirect.com/science/article/abs/pii/S0032063317302003>
- **Space Resources Roundtable:** <https://learn.mines.edu/srr/>
- “The Manufacture and Characterization of Sintered Icy Lunar Regolith Simulants, and Implications for Space Resources and Planetary Science”
<https://www.proquest.com/openview/a0168871ad9c845265afa494d2a972a4/1?cbl=18750&diss=y&pq-origsite=gscholar>
- “Pressure Sintered icy lunar regolith Simulant (PSS): A novel icy regolith simulant production method”
<https://www.sciencedirect.com/science/article/pii/S0019103523004645>
- **Lunar Simulants:** LSIC has done 4 different lunar simulant assessments and has worked with the simulant advisory committee. They are on multiple simulants and different types of studies (e.g. geochemical, geophysical, geotechnical, optical) You can find 3 of them here and the 4th (optical) will be posted soon.
<https://lsic.jhuapl.edu/Our-Work/Working-Groups/Lunar-Simulants.php>
- **Flight Opportunities webinar:** New Capability Allows Payloads to Experience Lunar Gravity Aboard Suborbital Rocket
<https://www.nasa.gov/stmd-flight-opportunities/fo-resources/community-of-practice-webinars/may-2025/>
- **Subscribe to the Flight Opportunities newsletter** to stay up to date on current community of practice topics and ways to engage with the program:
<https://www.nasa.gov/directorates/spacetech/flightopportunities/newsletter>

