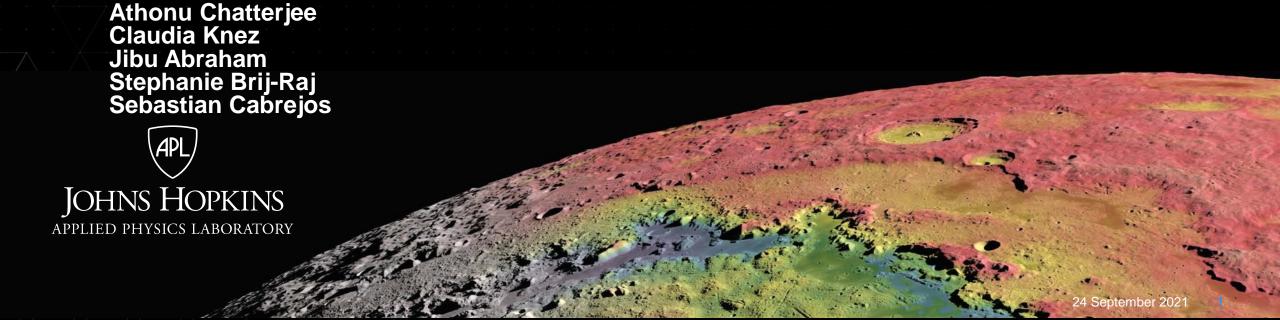


# LSIC Excavation and Construction Workshop http://lsic.jhuapl.edu/

**September 24, 2021** 





# **Friendly Reminders**

Recordings will be posted on our website.

(http://lsic.jhuapl.edu/Focus-Areas/Excavation-and-Construction.php)

Please post your questions in 'Q&A'.

Mute yourself if you are not speaking.



# **Focus Group Updates**

- Great E&C workshop last month (Aug. 20<sup>th</sup>). We are compiling the findings, which will be shared with you and NASA.
  - Excellent participation in the breakout sessions.

- Moving the monthly meeting to the 4<sup>th</sup> Wednesday of the month, 2 3 PM Eastern, starting October.
  - We will send an updated meeting invite soon.

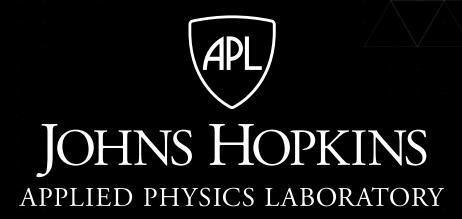


## **AGENDA**

## NASA's Break the Ice Lunar Challenge Phase 1 Winners

### 15—minute presentations:

- Elon Gordon (Redwire Space, Florida): Won the first place for its proposed two-rover system
  designed for simplicity and robustness.
- George Sowers (Colorado School of Mines): Won the second place for its proposed Lunar Ice Digging System, or LIDS.
- Curtis Purrington (Austere Engineering, Colorado): Won the third place for its Grading and Rotating for Water Located in Excavated Regolith (GROWLER) system.



# **LSII System Integrator - APL**

A key tenet of LSII is to implement a multitude of novel collaborations across industry, academia, and government in order to successfully develop the transformative capabilities for lunar surface exploration.

#### **Origin of the APL Task**

- NASA was investigating using a University Affiliated Research Center (UARC) to bring efficiencies to development
- LSII initiated a tasked APL, to assess system integration role for the Lunar Surface Innovation Initiative
- APL established a Lunar Surface Consortium with academia and industry representatives, as well as NASA experts, that span a broad range of capabilities to execute timely studies, tasks, and/or acquisitions

#### The Consortium will assist NASA in

- Identifying lunar surface technology needs and assessing the readiness of relative systems and components
- Making recommendations for a cohesive, executable strategy for development and deployment of the technologies required for successful lunar surface exploration
- Providing a central resource for gathering information, analytical integration of lunar surface technology demonstration interfaces, and sharing of results

