Lunar Surface Innovation S

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LSIC Excavation and Construction Monthly Meeting http://lsic.jhuapl.edu/

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August 24, 2022

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Athonu Chatterjee Jibu Abraham **Claudia Knez Michael Nord** Sarah Hasnain

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24 August 202



Lunar Surface Innovation

Friendly Reminders

• Recordings will be posted on our website.

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

- Please post your questions in 'chat' .
- Mute yourself if you are not speaking.



Today's Agenda

- LSIC, NASA updates and news.
- Data Buy Survey Ben Bussey
- Official launch of sub-groups Jibu Abraham and Sarah Hasnain
 - Enhance collaboration, streamline the feedback process.



Lunar Surface Innovation C O N S O R T I U M NASA 2023 Big Idea Challenge



In support of the Artemis program, NASA is looking for innovative and cost-effective technologies and systems that will enable the manufacture of lunar infrastructure from ISRU-derived metals found on the moon.

https://bigidea.nianet.org/wp-content/uploads/2023-BIG-Idea-Challenge-Proposal-Guidelines.pdf

Dates and Deadlines

September 30, 2022 October 20, 2022 January 24, 2023 March 2, 2023 Notice of Intent Deadline Q&A Session for interested teams Proposal and Video Deadline Teams are notified of their selection status

NASA's BIG Idea Challenge

2023 Theme - Lunar Forge: Producing Metal Products on the Moon

The Breakthrough, Innovative, and Game-Changing (BIG) Idea Challenge is managed by the National Institute of Aerospace (NIA) on behalf of the National Aeronautics and Space Administration (NASA)



Break the Ice Challenge, Phase 2

https://breaktheicechallenge.com/



The specific NASA technology gaps that Phase 2 aims to address include:

- Excavate large quantities of icy regolith
- Delivery of large quantities of acquired resources
- Hardware and equipment that is lightweight and energy efficient
- Hardware and equipment that is reliable and durable

Power Supply? Collaboration with LSIC Surface Power Focus Group



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