



# Lunar Surface Innovation

C O N S O R T I U M

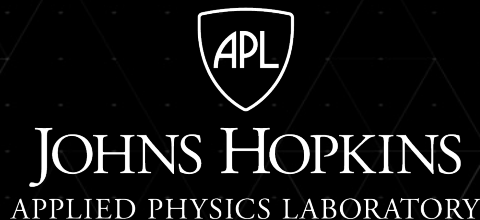
---

## Extreme Environments Focus Group January Meeting

**January 11, 2022**

Jamie Porter, PhD  
Johns Hopkins Applied Physics Laboratory

[Facilitator\\_ExtremeEnvironments@jhuapl.edu](mailto:Facilitator_ExtremeEnvironments@jhuapl.edu)



# Today's Agenda

- LSIC Updates
- Karen's Korner
- EE Winter Meetings Path Forward
- Featured Presentations (Richard Oeftering )
  - Power Hibernation: Surviving the Extreme Cold Lunar Environment
- Open floor

# LSIC Updates

## *Lunar Community Meetings*

- *53rd Lunar and Planetary Science Conference*
  - Abstract deadline: **January 11, 2022**
  - Event Date: March 7–11, 2022 (Hybrid)
- Lunar Surface Science Workshop XIII: Inclusive Lunar Exploration
  - Event Date: January 26–27, 2022 (Virtual)
  - <https://www.hou.usra.edu/meetings/lunarsurface2020/>
- Lunar Surface Science Workshop XIV: Heliophysics Applications Enabling and Enabled by Human Exploration of the Lunar Surface
  - Abstract deadline: January 18, 2022 @ 5pm
  - Event Date: February 17, 2022 (Virtual)
  - <https://www.hou.usra.edu/meetings/lunarsurface2020/abstracts/>

# LSIC Updates

## *NASA's 2021 Included Mars Landing, First Flight, Artemis, More*

- Overview of NASA accomplishments in 2021 and path forward
  - <https://www.nasa.gov/press-release/nasa-s-2021-included-mars-landing-first-flight-artemis-more>

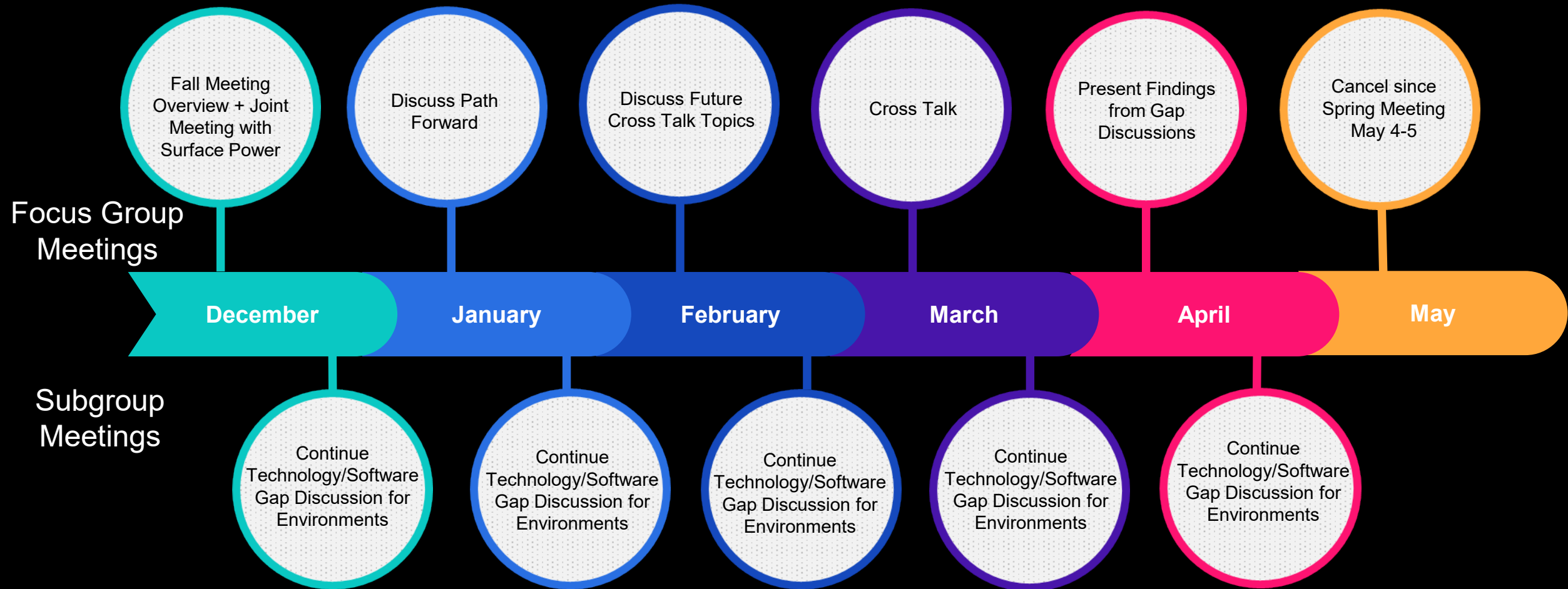
## *NASA Awards Artemis Contract for Future Mega Moon Rocket Boosters*

- NASA awarded the Booster Production and Operations Contract (BPOC) to Northrop Grumman to build boosters for the Space Launch System (SLS) rocket
  - <https://www.nasa.gov/press-release/nasa-awards-artemis-contract-for-future-mega-moon-rocket-boosters>

## *Funding Opportunities*

- 2022 Breakthrough, Innovative and Game-Changing (BIG) Idea Challenge: Extreme Terrain Mobility Challenge
  - <http://bigidea.nianet.org/competition-basics/>
  - Proposal and Video deadline: January 18, 2022
- Please visit LSIC website for full list
  - <http://lsic.jhuapl.edu/Resources/Funding-Opportunities.php>

# EE Winter Meeting Path Forward



\* Joint TBD workshop with EA in late winter/early spring



JOHNS HOPKINS  
APPLIED PHYSICS LABORATORY