

Modular Open Systems Approach (MOSA) Working Group Telecon

July 13th, 2022

Begins at 11:03AM ET

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Space Exploration Sector

To Join LSIC MOSA WG
Email Andrea Harman

Meeting Agenda

- LSIC Community Updates
- Technical Presentation
 - Title: Overview of the Consortium for Execution of Rendezvous and Servicing Operations (CONFERS)
 - Presenter: Brian Weeden, PhD
- Miro Activity

LSIC | Upcoming Meetings and Workshops



- **LSIC *Low Temperature Sub-kW Power and Energy Storage for the Lunar Surface Workshop***
 - July 28th 11:00 – 4:00 ET
 - Registration open
- **AIAA ASCEND**
 - October 24-26, Las Vegas + Online
- **LSIC Fall Meeting**
 - November 2-3, University of Texas-El Paso
- **Complete calendar on LSIC website**

LSIC | Low-Temperature, Sub-kW Power and Energy Storage for the Lunar Surface



The Moon harbors thermal extremes with requirements far beyond most terrestrial technologies. The permanently shadowed regions near the lunar poles, rich in science and containing potentially commercially relevant volatiles, reach ultra-cold temperatures ranging down to tens of degrees Kelvin. Solutions such as battery modules that will survive or operate within these extremes, as well as strategies that ensure survival through hibernation, are immediate needs critical for operations on the lunar surface and beyond.

Topics for the workshop include:

- Context on needs and lunar thermal environments
- Panel discussion of near-term system solutions
- Lightning talks that survey recent developments
- Focused session on low temperature batteries
- Break-out discussions targeting specific scenarios

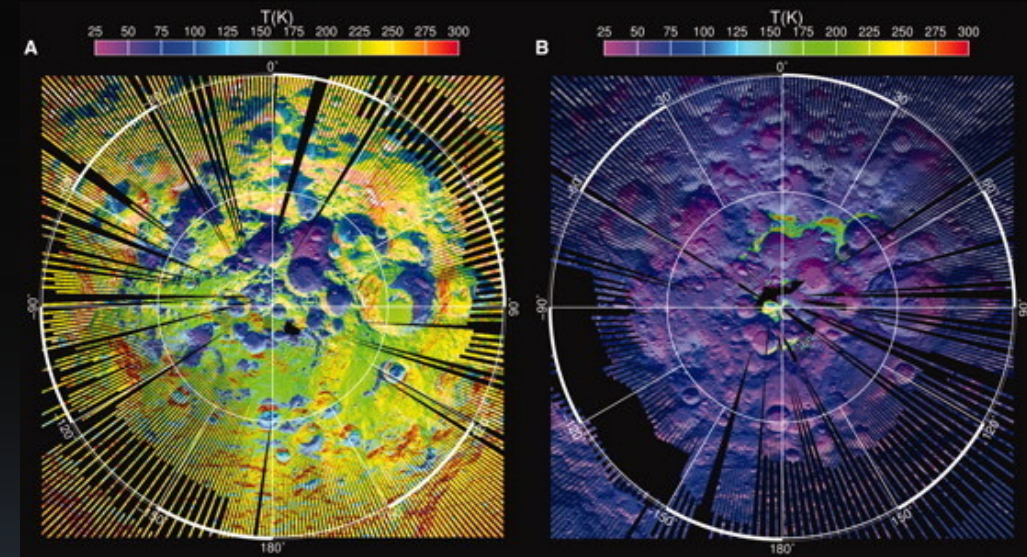
Format and date:

Virtual, Zoom Webinar (**registration required, but is fast and free**)

Lightning Talks: 400-word max abstracts due July 8th

Thursday July 28th, 11:00 – 4:45 ET (total length subject to change)

<https://lsic.jhuapl.edu/Events/Agenda/index.php?id=214>



Diviner-measured daytime (left) and nighttime (right) bolometric brightness temperatures

Overview of the Consortium for Execution of Rendezvous and Servicing Operations (CONFERS)

Brian Weeden, PhD

<https://www.satelliteconfers.org>



JOHNS HOPKINS
APPLIED PHYSICS LABORATORY

