

May 27-29, 2025

**Hybrid Meeting** 

**OPEN SESSION** 

2:05 PM

National Academy of Sciences Building, 2101 Constitution Avenue, NW, Washington, DC

**ALL TIMES IN US EASTERN DAYLIGHT TIME (UTC-4:00)** 

#### **TUESDAY, MAY 27, 2025**

Livestream: https://vimeo.com/event/5149082

9:00 AM	Welcome	Dr. Alex Evans, Panel Chair
9:05 AM	Perspective on Project Statement of Task by NASA Planetary Science Division (PSD) (30-minute presentation and 30-minute discussion)	Dr. Louise Prockter, Director, NASA-PSD
10:05 AM	Break	
10:15 AM	Perspective on Project Statement of Task by NASA Exploration Science Strategy Integration Office (30-minute presentation and 30-minute discussion)	Dr. Joel Kearns, Deputy Assoc. Administrator for Exploration, NASA / Dr. Sarah Noble, Program Scientist, NASA-PSD
11:15 AM	Planetary Science Decadal Objectives Overview (30-minute presentation and 30-minute discussion)  Plane	Dr. Jennifer Heldmann, Moon and Mercury Panel Member, etary Sciences Decadal Survey 2023
12:15 PM	Working Lunch for Members, Speakers, and Invited Guests	
1:05 PM	South Pole-Aitken Basin Sample Return and Exploration (SPARX) Science Definition Team	on Dr. Lauren Jozwiak, Senior Staff Scientist,

(30-minute presentation and 30-minute discussion)

Break into Closed Session

Johns-Hopkins U. Applied

**Physics Lab** 

# WEDNESDAY, MAY 28, 2025

# **OPEN SESSION**

Livestream: https://vimeo.com/event/5149086

10:00 AM	Welcome	Dr. Alex Evans, Panel Chair
10:05 AM	Geological Training of the Artemis Crew (25-minute presentation and 20-minute discussion)	Dr. Cindy Evans, Training and Strategic Integration Lead, NASA-JSC
10:50 AM	Extra-Vehicular Activity Planning (25-minute presentation and 20-minute discussion)	Dr. Kelsey Young, Science Flight Operations Lead, NASA-GSFC
11:35 AM	Lunar Terrain Vehicle – Science Capabilities (25-minute presentation and 20-minute discussion)	Dr. Ryan Ewing, Artemis Mobility Lead, NASA-JSC
12:20 PM	Working Lunch for Members, Speakers, and Invited Gue	ests

**THURSDAY, MAY 29, 2025** 

Panel meets entirely in closed session.

### **IMPORTANT NOTES**

#### **Members of the General Public:**

- Remote access will be provided through a live stream on Vimeo. This will also be publicly available and posted on the Board website. You do not need to register.

Thank you all for your cooperation, and we look forward to a successful meeting.

#### STATEMENT OF TASK

## Task Initiated on April 8, 2025

The Panel on Lunar and Planetary Sciences will gather information and identify and articulate the science objectives related to planetary sciences and lunar geology and geophysics that would be most enabled by human explorers on the moon. Using NASA's 2022 *Moon to Mars Objectives*, the National Academies report *Origins*, *Worlds, and Life: A Decadal Strategy for Planetary Science and Astrobiology 2023-2032*, and other gathered information, the panel will:

- Identify key science objectives within planetary sciences and lunar geology and geophysics that can or must be done by human explorers on the lunar surface;
- Specify the key measurements, either in situ or via returned samples, needed to achieve these key science objectives and why human explorers would enable those measurements (as opposed to robotic assets)
- Detail any pre-placed assets (e.g., tools, mobility devices, robotic hardware, and equipment delivered to the lunar surface prior to human landing) that would be either necessary or enabling of these key measurements
- Prioritize potential non-polar landing sites or characteristics of landing sites that would be most enabling of these key science objectives and measurements

This panel is one of four operating under the aegis of "Key Non-Polar Destinations Across the Moon to Address Decadal-level Science Objectives with Human Explorers" and its steering committee. The panel will provide the steering committee with its findings and a science traceability matrix outlining each potential non-polar landing site (or characteristics of landing sites) and the science objectives it would enable. The panel will not produce recommendations as part of its input to the project's Steering Committee.