

SPACE SCIENCE WEEK

Committee on Astrobiology and Planetary Sciences

March 31 – April 4, 2025

Hybrid Meeting

In Person at the National Academy of Sciences Building, 2101 Constitution Avenue, NW, Washington, DC

Online via Zoom and Livestream

MONDAY, MARCH 31, 2025

OPEN SESSION

Livestream Link: <https://vimeo.com/event/5017989>

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Updates from NASA

10:00 AM	Welcome	Dr. Martha Gilmore, CAPS Co-Chair / Dr. Karyn Rogers, CAPS Co-Chair
10:05 AM	NASA Planetary Science Division (PSD) Program Update (30-minute presentation and 30-minute discussion)	Dr. Charles Webb, Acting Director, NASA-PSD
11:05 AM	NASA Astrobiology Program Update (30-minute presentation and 30-minute discussion)	Dr. David Grinspoon, Senior Scientist for Astrobiology Strategy, NASA-PSD / Dr. Rebecca McCauley Rench, Deputy Program Scientist for the Astrobiology Program, NASA-PSD
12:05 PM	<i>Working Lunch for Members, Speakers, and Invited Guests</i>	
1:00 PM	Update from the Mars Exploration Program and the New Mars Program Strategy (30-minute presentation and 30-minute discussion)	Dr. Lindsay Hays Senior Scientist for Mars Exploration, NASA
2:00 PM	Status of Mars Sample Return Architecture Review (25-minute presentation and 20-minute discussion)	Ms. Donya Douglas-Bradshaw, Mars Sample Return Program Director, NASA
2:45 PM	<i>Break</i>	

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCES
MARCH 31 – April 4, 2025

3:00 PM	Status Update from NASA Planetary Defense Office (25-minute presentation and 20-minute discussion)	Dr. Kelly Fast, Acting Planetary Defense Officer, NASA
3:45 PM	Venus Laboratory Experiments (25-minute presentation and 20-minute discussion)	Dr. Alison Santos, Senior Research Scientist, Wesleyan U.
<i>4:30 PM</i>	<i>Break into Closed Session</i>	

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCES
MARCH 31 – April 4, 2025

TUESDAY, APRIL 1, 2025

PLENARY SESSION

Livestream Link: TBD

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8:45 AM	Welcome	Dr. Colleen Hartman , Director, Space Studies Board
8:50 AM	Update from Lockheed Martin Space <i>(20-minute presentation and 10-minute discussion)</i>	Dr. Tahllee Baynard Vice President, Ignite, Lockheed Martin Space
9:20 AM	Address from Acting NASA Administrator <i>(25-minute presentation)</i>	Ms. Janet Petro Acting Administrator, NASA
9:45 AM	Update from NASA Science Mission Directorate (SMD) <i>(40-minute presentation and 20-minute discussion)</i>	Dr. Mark Clampin Acting Deputy Assoc. Administrator NASA-SMD
10:45 AM	<i>Break (30 minutes)</i>	
11:15 AM	Update from NASA Exploration Systems Development Mission Directorate (ESDMD) <i>(40-minute presentation and 20-minute discussion)</i>	Dr. Lori Glaze Acting Assoc. Administrator, NASA-ESDMD
12:15 PM	<i>Working Lunch for Members, Speakers, and Invited Guests in the Great Hall</i>	
1:30 PM	Update from NASA Space Communications and Navigation Program (SCaN) <i>(30-minute presentation and 15-minute discussion)</i>	Mr. Kevin Coggins Deputy Assoc. Administrator, NASA-SCaN
2:15 PM	AI in Space Applications <i>(30-minute presentation and 15-minute discussion)</i>	Dr. Shirley Dyke Professor, Purdue University

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCES
MARCH 31 – April 4, 2025

3:00 PM	Observations of a Space Journalist: The Global Reach for the Moon and Mars <i>(20-minute presentation and 10-minute discussion)</i>	Mr. Leonard David Independent Space Journalist
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3:30 PM	<i>Break (30 minutes)</i>
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International Partners Presentations

4:00 PM	European Space Agency (ESA) Science Highlights <i>(20-minute presentation and 10-minute discussion)</i>	Dr. Carole Mundell* Director of Science, ESA
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4:30 PM	Committee on Space Research (COSPAR) Update <i>(20-minute presentation and 10-minute discussion)</i>	Dr. Pascale Ehrenfreund President, COSPAR
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5:00 PM	Update from National Space Science Center (NSSC) Chinese Academy of Sciences <i>(20-minute presentation and 10-minute discussion)</i>	Prof. Chi Wang Director General, NSSC
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5:30 PM	Japanese Aerospace Exploration Agency (JAXA) Science Highlights <i>(20-minute presentation and 10-minute discussion)</i>	Dr. Masaki Fujimoto* Deputy Director General, Institute of Space and Astronautical Sciences (ISAS), JAXA
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6:00 PM	<i>Break (30 minutes)</i>
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COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCES
MARCH 31 – April 4, 2025

WEDNESDAY, APRIL 2, 2025

OPEN SESSION

Livestream Link: <https://vimeo.com/event/5018005>

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Special Session on Lunar Science Decadal Priorities, Day 1

9:45 AM	Welcome and Purpose of the Special Session	Dr. Martha Gilmore, CAPS Co-Chair / Dr. Karyn Rogers, CAPS Co-Chair
9:50 AM	Special Session Opening Talk on the State of Lunar Science (30-minute presentation and 15-minute discussion)	Dr. Brett Denevi, Planetary Scientist, Johns-Hopkins U. Applied Physics Lab.
10:35 AM	Apollo Sample Curation (25-minute presentation and 20-minute discussion)	Dr. Juliane Gross, Astromaterials Curator, NASA-JSC
11:20 AM	Perspective of Solar System Exploration Research Virtual Institute (SSERVI) (25-minute presentation and 20-minute discussion)	Dr. Greg Schmidt, Director, SSERVI
12:05 PM	<i>Working Lunch for Members, Speakers, and Invited Guests</i>	

OPEN SESSION

Livestream Link: <https://vimeo.com/event/5018005>

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**Joint Session of the Committee on Biological and Physical Sciences in Space (CBPSS) and
the Committee on Astrobiology and Planetary Sciences (CAPS)
on Decadal-Level Science Priorities on the Moon**

Key Focus of the Session:

How will the Artemis Program, Gateway, and the Commercial Lunar Payload Services achieve science priorities laid out in the Biological and Physical Sciences in Space 2023 Decadal Survey and the Planetary Sciences and Astrobiology 2023 Decadal Survey?

1:00 PM	Exploration Systems Development Mission Directorate (ESDMD) General Overview of the Artemis Program (25-minute presentation and 20-minute discussion)	Ms. Nujuod Merancy, Deputy Assoc. Administrator, Strategy and Architecture Office, NASA-ESDMD
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COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCES
MARCH 31 – April 4, 2025

1:45 PM	Perspective of the Artemis III and Artemis IV Science Team Leaders (25-minute presentation and 20-minute discussion)	Dr. Barbara Cohen, Artemis IV Science Lead, NASA-GSFC Dr. Noah Petro, Artemis III Science Lead, NASA-GSFC
2:30 PM	<i>Break</i>	
2:50 PM	Joint Committee Discussion with Exploration Science Strategy Integration Office (ESSIO) (20-minute presentation and 25-minute discussion)	Dr. Brad Bailey, Asst. Deputy Assoc. Administrator for Exploration, NASA
3:50 PM	<i>Break into Closed Session</i>	

PUBLIC LECTURE SESSION

Livestream Link: TBD

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**The Warped Side of Our Universe:
Exploring the Intersection of Art and Science**

A CONVERSATION WITH

Prof. Kip Thorne

Richard P. Feynman Professor of Theoretical Physics, Emeritus, California Institute of Technology

AND

Ms. Lia Halloran

Chair and Associate Professor, Department of Art Chapman University

MODERATED BY

Mr. Taras W. Matla

Director, University of Maryland Art Gallery



6:30 PM	Introduction	Dr. Greg Symmes Chief Operating Officer, National Academy of Sciences
6:35 PM	The Warped Side of Our Universe: Exploring the Intersection of Art and Science	Prof. Kip Thorne and Ms. Lia Halloran
7:45 PM	Q&A with Kip and Lia	Moderator: Mr. Taras Matla

Lecture Abstract

The evening will feature a conversation between Kip and Lia focusing on their project “The Warped Side of Our Universe: An Odyssey Through Black Holes, Wormholes, Time Travel, and Gravitational Waves”. This engaging dialogue will blend Kip's scientific insights with Lia's artistic interpretations, using poetry and paintings to make complex astrophysical concepts more accessible. Their work delves into profound questions about the universe's origins and the nature of time and space.

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCES
MARCH 31 – April 4, 2025

THURSDAY, APRIL 3, 2025

OPEN SESSION

Livestream Link: <https://vimeo.com/event/5018011>

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Special Session on Lunar Science Decadal Priorities, Day 2

9:45 AM	Opening Remarks After Day 1 on Lunar Science	Dr. Martha Gilmore, CAPS Co-Chair / Dr. Karyn Rogers, CAPS Co-Chair
9:50 AM	Endurance-A Concept (25-minute presentation and 20-minute discussion)	Dr. James T. Keane, Planetary Scientist, Jet Propulsion Laboratory
10:35 PM	Committee Breaks to 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.