

Agenda subject to change, please check back for updates or changes.

## SPACE SCIENCE WEEK

April 1–3, 2025

Committee on Biological and Physical Sciences in Space Agenda

Hybrid Meeting

In Person at National Academy of Sciences Building, 2101 Constitution Avenue NW, Board Room,  
Washington, DC – MAP on last page

Online via Zoom and Livestream

TUESDAY, APRIL 1, 2025

### PLENARY SESSION

Livestream Link: <https://vimeo.com/event/5008213>

CLICK HERE TO JOIN

7:30 AM	Registration in the Great Hall	
8:30 AM	<b>Welcome</b>	<b>Dr. Colleen Hartman</b> Director, Space Studies Board
8:40 AM	<b>Perspectives on Space Policy</b> <i>(15-minute presentation)</i>	<b>Congressman Mike Haridopolos (FL-08)*</b> Chair, Space and Aeronautics Subcommittee House Science, Space, and Technology Committee
8:55 AM	<b>Science and Innovation at Lockheed Martin Space</b>	<b>Dr. Tahllee Baynard</b> Vice President, Ignite, Lockheed Martin Space
9:20 AM	<b>Address from Acting NASA Administrator</b> <i>(25-minute presentation)</i>	<b>Ms. Janet Petro</b> Acting Administrator, NASA
9:45 AM	<b>Update from NASA Science Mission Directorate (SMD)</b> <i>(40-minute presentation and 20-minute discussion)</i>	<b>Dr. Mark Clampin</b> Acting Deputy Assoc. Administrator NASA-SMD
10:45 AM	Break (30 minutes)	
11:15 AM	<b>Update from NASA Exploration Systems Development Mission Directorate (ESDMD)</b> <i>(40-minute presentation and 20-minute discussion)</i>	<b>Dr. Lori Glaze</b> Acting Assoc. Administrator, NASA-ESDMD
12:15 PM	Working Lunch for Members, Speakers, and Invited Guests in the Great Hall	

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<b>1:30 PM</b>	<b>Update from NASA Space Communications and Navigation Program (SCaN)</b> <i>(30-minute presentation and 15-minute discussion)</i>	<b>Mr. Kevin Coggins</b> Deputy Assoc. Administrator, NASA-SCaN
<b>2:15 PM</b>	<b>Human-Centered Autonomous Resilient Space Habitats</b> <i>(30-minute presentation and 15-minute discussion)</i>	<b>Dr. Shirley Dyke</b> Donald and Patricia Coates Professor of Innovation in Mechanical Engineering, Purdue University
<b>3:00 PM</b>	<b>Observations of a Space Journalist: The Global Reach for the Moon and Mars</b> <i>(20-minute presentation and 10-minute discussion)</i>	<b>Mr. Leonard David</b> Independent Space Journalist
<b>3:30 PM</b>	Break (30 minutes)	

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**International Partners Presentations**

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<b>4:00 PM</b>	<b>European Space Agency (ESA) Science Highlights</b> <i>(20-minute presentation and 10-minute discussion)</i>	<b>Dr. Carole Mundell*</b> Director of Science, ESA
<b>4:30 PM</b>	<b>Committee on Space Research (COSPAR) Update</b> <i>(20-minute presentation and 10-minute discussion)</i>	<b>Dr. Pascale Ehrenfreund</b> President, COSPAR
<b>5:00 PM</b>	<b>Update from National Space Science Center (NSSC) Chinese Academy of Sciences</b> <i>(20-minute presentation and 10-minute discussion)</i>	<b>Prof. Chi Wang</b> Director General, NSSC
<b>5:30 PM</b>	<b>Japanese Aerospace Exploration Agency (JAXA) Science Highlights</b> <i>(20-minute presentation and 10-minute discussion)</i>	<b>Dr. Masaki Fujimoto*</b> Director General, Institute of Space and Astronautical Sciences (ISAS), JAXA
<b>6:00 PM</b>	Plenary Session Adjourns	

## FOR COMMITTEE AND STAFF USE ONLY

**Space Science Week — CBPSS**  
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**WEDNESDAY, APRIL 2, 2025**

### CLOSED SESSION

**8:30 AM**      **Closed Session for Committee and Staff Only**

**9:15 AM**      Meeting Adjourns to Open Session

### OPEN SESSION

Remote Access – <https://vimeo.com/event/4931161>

[CLICK HERE TO JOIN](#)

**9:30 AM**      **Biological and Physical Sciences Division Status**      **Lisa Carnell**  
(30 minute presentation & 15 minute discussion period)      **NASA SMD**

**10:15 AM**      **Science from the International Space Station National Laboratory**      **Michael Roberts**  
(30 minute presentation & 15 minute discussion period)      **ISS-NL**

**11:00 AM**      **Panel: Research Infrastructure for Decadal Science Campaigns**  
Panel Description: The campaigns recommended by the 2023 Decadal Survey will require research consortiums on a large scale pulling from academia, government, and industry. How are consortiums of this scale started and what are the challenges and opportunities for the BLiSS and MATRICES campaigns?  
(2 x 15 minute presentations & 30 minute discussion period)  
**Panelists:**      **Simon Gilroy**, University of Wisconsin, Madison  
                         **Andrew O'Connor**, NASA MSFC

**12:00 PM**      Working Lunch for Members, Speakers, Registered Guests, and Staff (60 minutes)

### **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** **National Academy of Sciences Building, Lecture Room**

Remote Access – <https://vimeo.com/event/5018005>

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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**      **Nujoud Merancy\***  
(25 minute presentation & 20 minute discussion period)      **NASA ESDMD**

## FOR COMMITTEE AND STAFF USE ONLY

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1:45 PM	<b>Perspective of the Artemis III and Artemis IV Science Team Leaders</b> <i>(25 minute presentation &amp; 20 minute discussion period)</i>	<b>Barbara Cohen &amp; Noah Petro</b> <b>NASA GSFC</b>
2:30 PM	Break (20 minutes)	
2:50 PM	<b>Exploration Science Strategy Integration Office and Commercial Lunar Payload Services Program Overview</b> <i>(40 minute presentation &amp; 20 minute discussion period)</i>	<b>Brad Bailey</b> <b>NASA SMD</b>
3:50 PM	Meeting Adjourns to Executive Session; Break (25 minutes)	

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### CLOSED SESSION

4:30 PM	<b>Closed Session for the Committee and Staff Only</b>
5:30 PM	Meeting Adjourns for the Day; Keynote Public Lecture at 6:30 PM

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Space Science Week Keynote Public Lecture

KEYNOTE PUBLIC LECTURE

Livestream Link: <https://vimeo.com/event/5008217>

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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

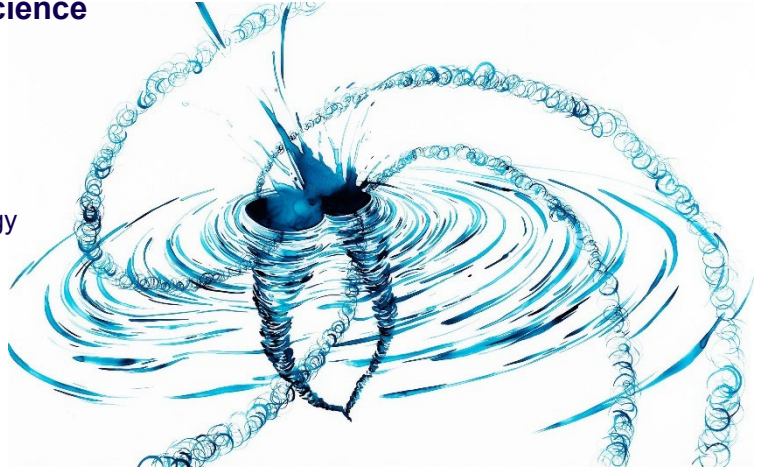
**Prof. Lia Halloran**

Chair and Professor, Department of Art  
Chapman University

MODERATED BY

**Mr. Taras W. Matla**

Director, University of Maryland Art Gallery



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

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.

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**THURSDAY, APRIL 3, 2025**

### **CLOSED SESSION**

**9:30 AM**            **Closed Session for the Committee and Staff Only**

**1:00 PM**            Meeting Adjourns

### **IMPORTANT NOTES**

#### **Presenters:**

- Please do not include ITAR-controlled or sensitive information in your presentation.
- A National Academies Board staff member will ask you to sign a form before the meeting allowing us permission to use your likeness and presentation for our livestream video, which will be posted on our Board website after the meeting. Please get in touch with us before the meeting if you have any concerns about this usage.

#### **Committee Members and Presenters:**

- Remote access will be provided through Zoom. This will allow you to participate in the meeting even if you can't be physically present.
- Please note that Zoom allows audio and any materials exchanged or viewed during the session to be recorded and shared.
- By participating in this activity, you agree to let your voice, likeness, and any materials you provide be recorded for use and dissemination. This includes any language, format, or media now known or later devised.
- You release the National Academies of Sciences, Engineering, and Medicine from any and all claims, liability, or damages arising from any such use. If you disagree, please do not join the session.

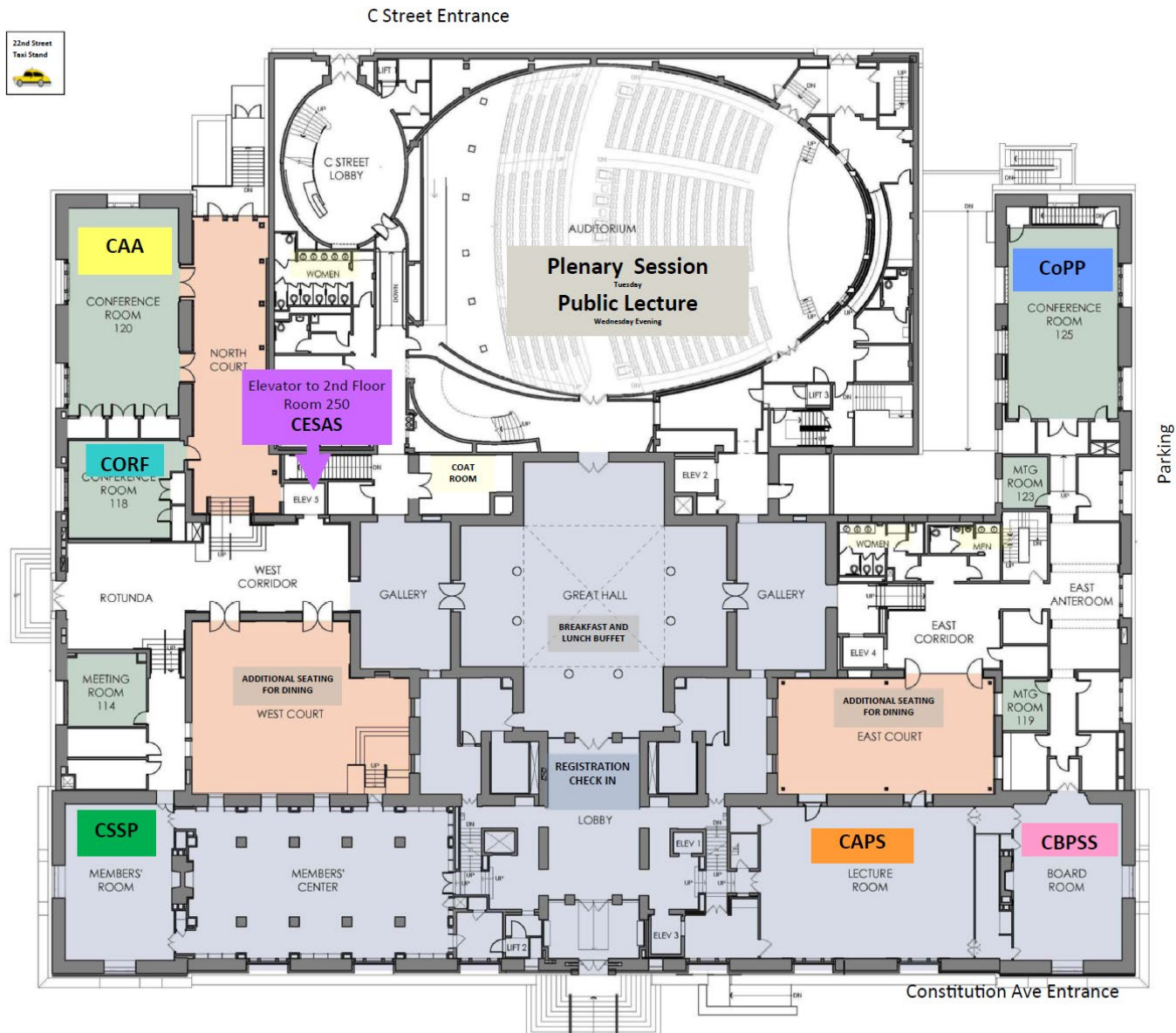
#### **Members of the General Public:**

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

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



Space Science Week — CBPSS  
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March 31—April 4, 2025

CAA	Room 120
CAPS	Lecture Room
CBPSS	Board Room
CESAS	Room 250
CoPP	Room 125
CSSP	Members' Room
CORF	Room 118