

SPACE SCIENCE WEEK

April 1-4, 2025

Hybrid Meeting

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

Online via Zoom and Livestream

TUESDAY, APRIL 1, 2025

PLENARY SESSION

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

CLICK HERE TO JOIN

8:30 AM	Welcome	Dr. Colleen Hartman Director, Space Studies Board
8:40 AM	Perspectives on Space Policy <i>(15-minute presentation)</i>	Congressman Mike Haridopolos (FL-08)* Chair, Space and Aeronautics Subcommittee House Science, Space, and Technology Committee
8:55 AM	Science and Innovation at Lockheed Martin Space	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	Break (30 minutes)	
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	Working Lunch for Members, Speakers, and Invited Guests in the Great Hall	

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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	Human-Centered Autonomous Resilient Space Habitats <i>(30-minute presentation and 15-minute discussion)</i>	Dr. Shirley Dyke Donald and Patricia Coates Professor of Innovation in Mechanical Engineering, Purdue University
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
3:30 PM	Break (30 minutes)	

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
4:30 PM	Committee on Space Research (COSPAR) Update <i>(20-minute presentation and 10-minute discussion)</i>	Dr. Pascale Ehrenfreund President, COSPAR
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
5:30 PM	Japanese Aerospace Exploration Agency (JAXA) Science Highlights <i>(20-minute presentation and 10-minute discussion)</i>	Dr. Masaki Fujimoto* Director General, Institute of Space and Astronautical Sciences (ISAS), JAXA
6:00 PM	Meeting Adjourns	

WEDNESDAY, APRIL 2, 2025 [LOCATION TBD]

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4963887>

10:00 AM	NASA Planetary Protection Office Update <i>(25-minute presentation & 20-minute discussion period)</i>	Dr. Nick Benardini Planetary Protection Office NASA
10:45 AM	Break (15 minutes)	
11:00 AM	Planetary Protection and NASA's Mars Exploration Program <i>(20-minute presentation and 25-minute discussion period)</i>	Dr. Lindsay Hays Mars Exploration NASA
11:45 AM	Break (15 minutes)	
12:00 PM	Mars Sample Return Update <i>(30-minute presentation and 30-minute discussion period)</i>	Dr. Brian Clement JPL
1:00 PM	Working Lunch for Members, Speakers, Registered Guests, and Staff (60 minutes) Great Hall	
2:00 PM	Panel: NASA's Planetary Protection Handbook <i>(15-minute presentation and 30-minute discussion period)</i> Panelists: Dr. Erin Lalime, Planetary Protection Office, NASA Mr. Ryan Hendrickson, JPL Mr. Charles Lorentson, GSFC Dr. Alexandra Pontefract, APL	
2:45 PM	Break (45 minutes)	
3:30 PM	Effects of Frost-Cycling on Microbial Survival and Growth Under Simulated Martian Conditions <i>(15-minute presentation and 15-minute discussion period)</i>	Dr. Andrew Schuerger University of Florida
4:00 PM	Meeting Adjourns to Closed Session; Break (15 minutes)	

KEYNOTE PUBLIC LECTURE

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

[CLICK HERE TO JOIN](#)

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

A CONVERSATION WITH

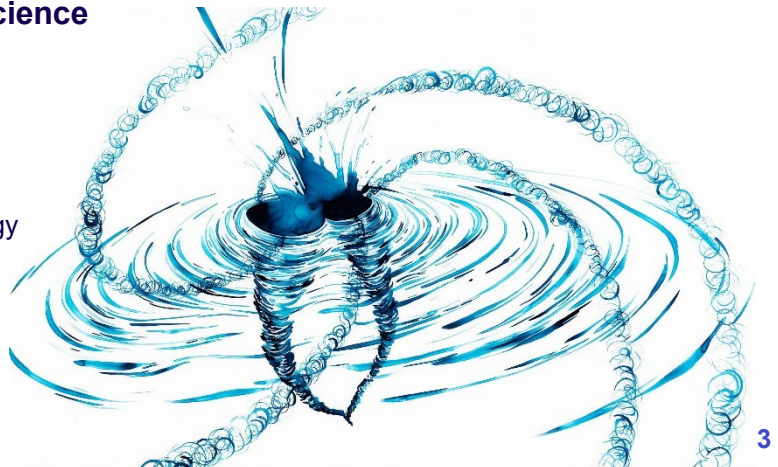
Prof. Kip Thorne

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

AND

Prof. Lia Halloran

Chair and Professor, Department of Art
Chapman University



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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 Prof. 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.

THURSDAY, APRIL 3, 2025 [LOCATION TBD]

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4963894>

10:45 AM	COSPAR Panel on Planetary Protection Update <i>(45-minute presentation & 45-minute discussion period)</i>	Dr. Athena Coustenis COSPAR PPP
12:15 PM	Working Lunch for Members, Speakers, Registered Guests, and Staff (60 minutes) Great Hall	
1:15 PM	Introducing NASA's Space Microbial Culture Collection <i>(15-minute presentation & 15-minute discussion period)</i>	Dr. Nick Benardini and Dr. David J. Smith Planetary Protection Office and Planetary Science Division NASA
1:45 PM	Break (15 minutes)	
2:00 PM	Panel: Metagenomics and Planetary Protection <i>(60-minute discussion period)</i> Panelists:	Dr. Erin Lalime, Planetary Protection Office, NASA Dr. Lyle Whyte, McGill Dr. Karen Olsson-Francis, The Open University Dr. Neslihan Taş, LBNL Dr. Robyn Barbato, US Army ERDC CRREL
3:00 PM	Break (15 minutes)	
3:15 PM	Mirror Life: Risks and Implications for Planetary Protection <i>(20-minute presentation & 25-minute discussion period)</i>	Dr. Michael Kay and Dr. David Relman University of Utah and Stanford
4:00 PM	Meeting Adjourns to Closed Session; Break (15 minutes)	

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FRIDAY, APRIL 4, 2025 [LOCATION TBD]

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4963901>

10:15 AM	Planetary Protection Research C.15 PPR Solicitation Prioritization Areas <i>(30-minute discussion)</i>	Dr. David J. Smith Planetary Science Division, NASA-SMD
10:45 AM	Planetary Protection and PESTO <i>(15-minute presentation & 15-minute discussion period)</i>	Dr. Erica N. Montbach Planetary Science Division, NASA-SMD
11:15 AM	Joint Discussion – PPR, PESTO, and SBIR/STTR <i>(30-minute discussion period)</i>	Dr. David J. Smith Dr. Erica N. Montbach NASA SMD Dr. Nick Benardini NASA HQ Dr. Sarah Wallace NASA JSC
11:45 AM	Break (15 minutes)	
12:00 PM	Closing Comments by the Committee <i>(30-minute discussion period)</i>	CoPP Co-Chairs
12:30 PM	Meeting Adjourns to Closed Session	

IMPORTANT NOTES

Presenters:

- Please do not include unpublished data, 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.

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 Board website. You do not need to register.

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