

SPACE SCIENCE WEEK

Committee on

March 18-22, 2024

Hybrid Meeting

In Person at the National Academy of Sciences Building, 2401 Constitution Avenue, NW, Washington, DC

Online via Zoom and Livestream

TUESDAY, MARCH 19, 2024

PLENARY SESSION

Livestream Link: <https://vimeo.com/event/4096317>

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Opening Session: Introductions and NASA, NSF, and NOAA Science Program Update

9:00 AM	Welcome	Mr. Jim Crocker SSB Vice Chair
9:00 AM	Update from the NASA Deputy Administrator (20-minute address)	Ms. Pamela Melroy NASA Deputy Administrator
9:20 AM	NASA Science Mission Directorate (SMD) Overview (30-minute presentation and 30-minute discussion)	Dr. Nicola Fox Assoc. Administrator NASA-SMD
10:20 AM	<i>Break</i>	
10:40 AM	National Science Foundation (NSF) Program Update (20-minute presentation and 10-minute discussion)	Dr. Saul Gonzalez Division Director, Mathematical and Physical Sciences (MPS) Division of Physics NSF
11:10 AM	National Oceanic and Atmospheric Administration (NOAA) Program Update (20-minute presentation and 10-minute discussion)	Dr. Stephen Volz Assistant Administrator for Satellite and Information Services, NESDIS, NOAA
11:40 AM	Update on the U.S. Space Council (15-minute presentation and 5-minute discussion)	TBD
12:00 PM	U.S. Department of State Update on Space Policy (20-minute presentation and 10-minute discussion)	Ms. Valda Vikmanis Keller Director, Office of Space Affairs Bureau of Oceans and International Environmental and Scientific Affairs U.S. State Department
12:30 PM	<i>Working Lunch for Members, Speakers, and Invited Guests in the Great Hall</i>	

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International Partners Presentations

1:30 PM	European Space Agency (ESA) Program Science Highlights (25-minute presentation and 10-minute discussion)	Dr. Carole Mundell Director of Science, ESA
2:05 PM	European Space Agency (ESA) Exploration Program (25-minute presentation and 10-minute discussion)	Dr. Daniel Neuenschwander Director of Exploration, ESA
2:40 PM	Japanese Aerospace Exploration Agency (JAXA) Science Highlights (25-minute presentation and 10-minute discussion)	Dr. Hitoshi Kuninaka Director General, JAXA
3:15 PM	<i>Break</i>	
3:45 PM	Chinese National Space Science Center (NSSC) Science Highlights (25-minute presentation and 10-minute discussion)	Prof. Dong Xiaolong Deputy Director, NSSC
4:20 PM	Indian Space Research Organisation (ISRO) Update (25-minute presentation and 10-minute discussion)	Mr. Krunal Joshi Counsellor, Space Embassy of India
4:55 PM	Space Law: Challenges and Predictions (25-minute presentation and 15-minute discussion)	Prof. Frans Von der Dunk, Harvey & Susan Perlman Alumni and Othmer Professor of Space Law University of Nebraska-Lincoln
5:30 PM	<i>Break</i>	

DINNER – BY INVITATION ONLY

6:00 PM	Working Dinner for Members, Speakers, and Invited Guests in the Great Hall
8:30 PM	Plenary Session Adjourns for the Day

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WEDNESDAY, MARCH 20, 2024

CLOSED SESSION

9:00 AM Committee Meets in Closed Session

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4088811>

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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 **Dr. Lori Glaze,**
(30-minute presentation and 30-minute discussion) **Director, NASA-PSD**

11:05 AM NASA Astrobiology Program Update **Dr. David Grinspoon,**
(30-minute presentation and 30-minute discussion) **Senior Scientist for Astrobiology
Strategy, NASA-PSD /
Dr. Lindsay Hays, Program
Scientist for Astrobiology, NASA-PSD**

12:05 PM Break into Closed Session for Lunch

CLOSED SESSION

12:15 PM Committee Meets in Closed Session

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4088811>

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1:15 PM ESA Mars Sample Return Science **Dr. Gerhard Kminek, Lead Scientist,**
(25-minute presentation and 20-minute discussion) **Mars Sample Return, ESA**

2:00 PM Break (15 minutes)

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2:15 PM	CAA-CAPS Joint Session: Science on the Moon (35-minute presentation and 25-minute discussion)	Dr. Brad Bailey, Assoc. Director for Exploration, NASA
<i>3:15 PM</i>	<i>Break (15 minutes)</i>	
3:30 PM	DAVINCI and Studying Planet Habitability Using Venus (30-minute presentation and 30-minute discussion)	Dr. Giada Arney, Deputy Principal Investigator, DAVINCI, NASA-GSFC
4:30 PM	OSIRIS-REx Astromaterials Research (25-minute presentation and 20-minute discussion)	Dr. Kevin Righter, Astromaterials Curator, NASA-JSC
<i>5:15 PM</i>	<i>Break into Closed Session</i>	

CLOSED SESSION

5:30 PM	Committee Meets in Closed Session
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PUBLIC LECTURE SESSION

Livestream Link: <https://vimeo.com/event/4096320>

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7:00 PM

Growing Insight into Space
Plants are Enablers of Extraterrestrial Exploration

Dr. Anna-Lisa Paul

Director, Interdisciplinary Center for Biotechnology Research (ICBR)
University of Florida

Public Lecture Abstract

TBD

Speaker Biography

Dr. Anna-Lisa Paul is a plant molecular biologist; she is a Professor at the University of Florida and the Director of UF's Interdisciplinary Center for Biotechnology Research (ICBR). She has been active in the spaceflight research community for over 25 years and has served that community as the President of the American Society for Gravitational and Space Research, as a member of the ISS Standing Review Board, on NASA's GeneLab Science Council, and on the Suborbital Applications Research Group (SARG) advisory board for the Commercial Spaceflight Federation. She serves on the National Academies Committee on Biological and Physical Sciences in Space (CBPSS). Paul has launched 12 orbital experiments to study how plants respond to the spaceflight environment, taken her science to extreme terrestrial environments (the Arctic and Antarctica) as planetary analogs, and worked with true lunar regolith from the Apollo era to evaluate plant molecular responses to that novel environment. She also uses suborbital launch vehicles to explore the effect of the transition to space on the molecular processes of plants. Paul is a recipient of the NASA Medal of Honor for Exceptional Scientific Achievement. She is a Fellow of the American Association for the Advancement of Science (AAAS) and a Fellow of the American Society for Gravitational and Space Research (ASGSR). Paul's fundamental belief is that humans are explorers, and when we leave Earth's orbit, plants will help us make the journey.



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THURSDAY, MARCH 21, 2024

CLOSED SESSION

Committee Meets Entirely in Closed Session

FRIDAY, MARCH 22, 2024

CLOSED SESSION

Committee Meets Entirely in 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.