

SPACE SCIENCE WEEK

March 19-21, 2024

Committee on Earth Science and Applications from Space Hybrid Meeting – Public Agenda

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

TUESDAY, MARCH 19, 2024

PLENARY SESSION

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

CLICK HERE TO JOIN

7:30 AM Registration Opens in the Great Hall

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

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	Break	
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)	General Lester Lyles Vice Chief of Staff, Commander AFMC, USAF (retired)
12:00 PM	U.S. Department of State Update on Space Policy (20-minute presentation and 10-minute discussion)	Mr. Anthony Fernandes Principal Deputy Assistant Secretary U.S. State Department

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12:30 PM Working Lunch for Members, Speakers, and Invited Guests in the Great Hall

International Partners Presentations
Auditorium

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	Break	
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	Break	

Committee on Earth Science and Applications from Space Meeting
NAS Conference Room 125

WEDNESDAY, MARCH 20, 2024

CLOSED SESSION

7:30 AM Registration Opens in the Great Hall
8:00 AM Closed Session for Committee and Staff Only
9:45 AM Meeting Adjourns to Open Session

OPEN SESSION

LIVESTREAM LINK: [HTTPS://VIMEO.COM/EVENT/4096335](https://vimeo.com/event/4096335)

CLICK HERE TO JOIN

10:00 AM	NASA ESD Update <i>(60 minute presentation & 30 minute discussion period)</i>	Karen St. Germain Director, Earth Science Division, NASA
11:30 AM	NOAA NESDIS Update <i>(45 minute presentation & 15 minute discussion period)</i>	Stephen Volz Ass't Administrator for Satellite and Information Services
12:30 PM Working Lunch for Members, Speakers, Registered Guests, and Staff in the Great Hall		
1:15 PM	USGS-National Land Imaging Update <i>(45 minute presentation & 15 minute discussion period)</i>	Tim Newman , Program Coordinator, NLI Zhuoting Wu , Earth Obs Applications Coord. (virtual)
2:15 PM Commercial Smallsat Data Acquisition Program Overview <i>(20 minute presentation & 10 minute discussion period)</i> Tom Wagner Associate Dir. for Earth Action, NASA ESD		
2:45 PM	Break	
3:00 PM	Panel: Non-Government Providers of Earth Science Data <i>(10-15 min remarks/presentations & discussion period)</i>	Chris Ruf , Prof., Univ. of Michigan (virtual) Joe Carroll , Federal Systems, Spire Inc. Johannes Loschnigg , Sr. Technical Advisor, GHGSat (virtual) Jonny Dyer , CEO, Muon Space Andrew Canales , VP of Strategic Defense Partnerships and Civil, Maxar Inc.

Questions for Discussion:

- Which data sets available now, or anticipated in the near future, from non-government (e.g., commercial) providers could be of interest to NASA, NOAA, and USGS?
- What are the advantages to the government and science/operational communities of using non-government data?
- How well does current contracting work? How should it?
- What are the incentives and disincentives to provide data to NASA/NOAA/USGS?

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- How can we establish confidence in non-government data for which long, consistent time series are needed?
- Should NASA/NOAA/USGS play roles beyond buyers, such as centralized validation?

5:30 PM Meeting Adjourns for the Day

Public Lecture Session
Auditorium

PUBLIC LECTURE SESSION

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

CLICK HERE TO JOIN

7:00 PM **Keynote Space Science Week Public Lecture**

**Growing Insight into Space:
Plants are Enablers of Extraterrestrial Exploration**

Dr. Anna-Lisa Paul

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

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 (ASCSR). 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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NAS Conference Room 125

THURSDAY, MARCH 21, 2024

CLOSED SESSION

9:30 AM Closed Session for Committee and Staff Only
2:00 PM Meeting Adjourns

IMPORTANT NOTES

Pre-Registration: All participants, including committee members, invited speakers and other attendees, are strongly encouraged to preregister at <https://cvent.me/EP5L7y>.

Registration will be located in the Great Hall during the event (see last page for a map). Please check-in there to receive your badge.

SSW Website: <https://www.nationalacademies.org/event/03-18-2024/space-science-week-2024>

NAS Building: Is located at 2101 Constitution Ave. NW, between the State Department and the Vietnam Veterans Memorial. Visitors must show a valid government ID (or a digital photo of the card) to the security staff at the NAS Building. Additional information about the NAS Building is available at <http://www.nationalacademies.org/about/contact/nax.html>.

Wi-Fi Connection: To connect to the Wi-Fi chose “Visitor Network” then open a browser and click “Accept terms and conditions.” You will then be connected to the internet.

Metro: The closest Metro station (0.5 miles) is Foggy Bottom (Blue, Orange, and Silver lines; exit and turn right, then turn left onto C Street once you have passed the State Department.

Parking: Very limited public parking is available onsite at the NAS. The 22 available parking spaces are available first come first served and fill rapidly. Note: construction on 21st St. may impact access to the garage at the NAS Building via Constitution Avenue. If so, the garage can be accessed from 21st via C Street and the arm may be raised to temporarily allow access from 22nd St NW.

Members of the General Public:

- Public registration available here: <https://cvent.me/EP5L7y>
- 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.

Presenters:

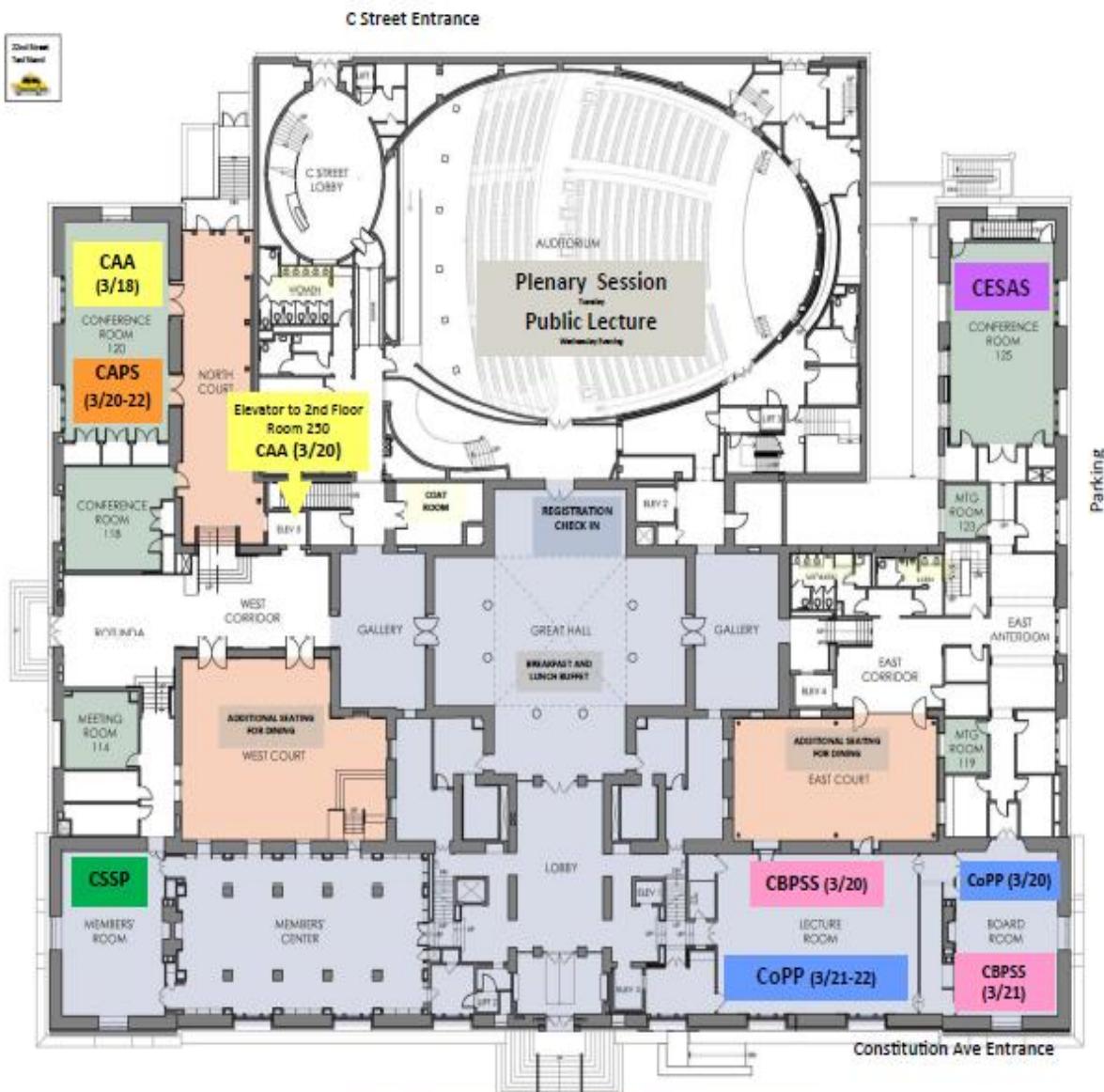
- Please do not include unpublished data, ITAR-controlled or sensitive information in your presentation.
- A National Academies Board staff member will ask you to sign a form before the meeting allowing us permission to use your likeness and presentation for our livestream video, which will be posted 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.

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

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March 18-22, 2024

CAA	Room 120 (3/18); Room 250 (3/20)
CAPS	Room 120
CBPSS	Lecture Room (3/20); Board Room (3/21)
CESAS	Room 125
CoPP	Board Room (3/20); Lecture Room (3/21-22)
CSSP	Members' Room