



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	<b>Welcome</b>	<b>Mr. Jim Crocker</b> SSB Vice Chair
9:00 AM	<b>Update from the NASA Deputy Administrator</b> (20-minute address)	<b>Col. Pamela Melroy (USAF, ret.)</b> NASA Deputy Administrator
9:20 AM	<b>NASA Science Mission Directorate (SMD) Overview</b> (30-minute presentation and 30-minute discussion)	<b>Dr. Nicola Fox</b> Assoc. Administrator NASA-SMD
10:20 AM	Break	
10:40 AM	<b>National Science Foundation (NSF) Program Update</b> (20-minute presentation and 10-minute discussion)	<b>Dr. Saul Gonzalez</b> Division Director, Mathematical and Physical Sciences (MPS) Division of Physics NSF
11:10 AM	<b>National Oceanic and Atmospheric Administration (NOAA) Program Update</b> (20-minute presentation and 10-minute discussion)	<b>Dr. Steven Volz</b> Assistant Administrator for Satellite and Information Services, NESDIS, NOAA
11:40 AM	<b>Update on the U.S. Space Council User Advisory Group (UAG)</b> (15-minute presentation and 5-minute discussion)	<b>Dr. Lance Bush</b> President and CEO Challenger Center
12:00 PM	<b>U.S. Department of State Update on Space Policy</b> (20-minute presentation and 10-minute discussion)	<b>Ms. Valda Vikmanis Keller</b> Director, Office of Space Affairs Bureau of Oceans and International Environmental and Scientific Affairs U.S. State Department

**Space Science Week**  
**March 17-21, 2024**

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

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**International Partners Presentations**

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**1:30 PM European Space Agency (ESA) Program Science Highlights** **Dr. Carole Mundell**  
(25-minute presentation and 10-minute discussion) Director of Science, ESA

**2:05 PM European Space Agency (ESA) Exploration Program** **Dr. Daniel Neuenschwander**  
(25-minute presentation and 10-minute discussion) Director of Exploration, ESA

**2:40 PM Japanese Aerospace Exploration Agency (JAXA) Science Highlights** **Dr. Hitoshi Kuninaka**  
(25-minute presentation and 10-minute discussion) Director General, JAXA

3:15 PM Break

**3:45 PM Chinese National Space Science Center (NSSC) Science Highlights** **Prof. Dong Xiaolong**  
(25-minute presentation and 10-minute discussion) Deputy Director, NSSC

**4:20 PM Indian Space Research Organisation (ISRO) Update** **Mr. Krunal Joshi**  
(25-minute presentation and 10-minute discussion) Counsellor, Space Embassy of India

**4:55 PM Space Law: Challenges and Predictions** **Prof. Frans Von der Dunk,**  
(25-minute presentation and 15-minute discussion) Harvey & Susan Perlman Alumni and Othmer Professor of Space Law University of Nebraska-Lincoln

5:30 PM Break

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**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

**Space Science Week**  
**March 17-21, 2024**

**WEDNESDAY, MARCH 20, 2024**

**CLOSED SESSION**

**9:00 AM – 9:45 AM**

**OPEN SESSION**

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<b>10:00 AM</b>	<b>NASA's Sounding Rocket Program</b>	<b>Catherine Hesh</b> <b>Sounding Rockets Programs Office</b> <b>Robert Pfaff, GSFC</b>
<b>11:00 AM</b>	<b>ELFIN CubeSat: How did you make it happen?</b> <b>Science and lessons learned</b>	<b>Vassilis Angelopoulos</b> <b>University of California, Los Angeles</b>
<b>11:30 AM</b>	<b>LLITED CubeSat: How did you make it happen?</b> <b>Science and lessons learned</b>	<b>Rebecca Bishop</b> <b>Aerospace Corporation</b>
<b>12:00 PM</b>	<b>CubeSat Discussion</b>	
<b>12:30 PM</b>	<b>Working Lunch for Members, Speakers, Registered Guests, and Staff (60 minutes)</b> <b>Great Hall</b>	
<b>1:30 PM</b>	<b>Update from NOAA Space Weather Prediction Center</b>	<b>Bill Murtagh</b> <b>NOAA SWPC</b>
<b>1:50 PM</b>	<b>Update from NOAA National Environmental Satellite, Data, and Information Service</b>	<b>Elsayed Talaat</b> <b>NOAA NESDIS</b>
<b>2:10 PM</b>	<b>Discussion with NOAA</b>	
<b>2:30 PM</b>	<b>Break (30 minutes)</b>	
<b>3:00 PM</b>	<b>Update from NASA Heliophysics Division</b>	<b>Joseph Westlake</b> <b>NASA Heliophysics Division</b>
<b>3:45 PM</b>	<b>Discussion with NASA Heliophysics Division</b>	
<b>4:15 PM</b>	<b>General Discussion of Open Topics</b>	<b>Committee, Speakers, and Invited Guests</b>
<b>5:00 PM</b>	<b>Meeting Adjourns for the Day</b>	

**Keynote Space Science Week Public Lecture**

**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

**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



**Space Science Week**  
**March 17-21, 2024**

**THURSDAY, MARCH 21, 2024**

**OPEN SESSION**

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- 8:30 AM Committee Room Opens for Members; Breakfast Served in the Great Hall
- 9:00 AM **Update from NSF Geospace Section** **Mangala Sharma**  
**NSF Geospace Section**
- 9:30 AM **Update from NSF Division of Astronomical Sciences** **Carrie Black**  
**NSF Astronomical Sciences**
- 9:50 AM **Discussion with NSF**
- 10:00 AM Break (15 minutes)
- 10:15 AM **Communication strategy for decadal survey and for changes in NASA policies** **Joseph Westlake**  
**Jared Leisner**  
**NASA Heliophysics Division**
- 11:00 AM **Learning how the solar corona works by creating and studying analogous magnetohydrodynamic phenomena in the lab** **Paul Bellan**  
**Caltech**
- 12:00 PM Working Lunch for Members, Speakers, Registered Guests, and Staff  
Great Hall
- 1:00 PM **How do agencies use Academies report recommendations? Discussion of decadal midterm responses as examples** **Peg Luce**  
**NASA Heliophysics Division**  
[Progress Toward Implementation of the 2013 Decadal Survey for Solar and Space Physics, 2020](#)  
[NASA response to Progress Toward Implementation recommendations](#)
- 2:00 PM Break (30 minutes) to go to closed session

**CLOSED SESSION**

3:45 PM MEETING ADJOURNS

## **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.**