



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. Stephen 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
12:30 PM	Lunch Break	

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**International Partners Presentations**

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

**WEDNESDAY, MARCH 20, 2024**

**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

**Lecture Abstract**

When we leave the confines of Earth's orbit, plants will accompany us on the journey. Plants have always been a part of the human exploration story, and whether it is on the scale of across a continent, an ocean, or a planet, plants allow us to push past the limits of the cargo we can carry. Dr. Paul will tell a story about how humans decided to take their explorations off their home world, and the role of plants (and space plant scientists) in preparing the way.

**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



## **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.**