

# 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 IN THE AUDITORIUM

#### PLENARY SESSION

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

CLICK HERE TO JOIN

#### 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)	Col. Pamela Melroy (USAF, ret.) 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 User Advisory Group (UAG) (15-minute presentation and 5-minute discussion)	Dr. Lance Bush President and CEO Challenger Center
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

**COMMITTEE ON PLANETARY PROTECTION**  
**MARCH 19-22, 2024**

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

**International Partners Presentations**

1:30 PM	<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
2:05 PM	<b>European Space Agency (ESA) Exploration Program</b> (25-minute presentation and 10-minute discussion)	<b>Dr. Daniel Neuenschwander</b> Director of Exploration, ESA
2:40 PM	<b>Japanese Aerospace Exploration Agency (JAXA) Science Highlights</b> (25-minute presentation and 10-minute discussion)	<b>Dr. Hitoshi Kuninaka</b> Director General, JAXA
3:15 PM	Break	
3:45 PM	<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
4:20 PM	<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
4:55 PM	<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
5:30 PM	Plenary Session Adjourns for the Day	

**COMMITTEE ON PLANETARY PROTECTION**  
**MARCH 19-22, 2024**

**WEDNESDAY, MARCH 20, 2024 IN THE BOARD ROOM**

**OPEN SESSION**

Livestream Link: <https://vimeo.com/event/4088820>

[CLICK HERE TO JOIN](#)

- 11:15 AM**      **Panel: OSIRIS-REx Sample Return Interagency Coordination**  
*(105-minute discussion period)*  
**Panelists:**      **Dr. Elaine Seasley, Deputy Planetary Protection Officer, NASA**  
                         **Mr. Leviticus A. "L.A." Lewis, FEMA Detailee/TTX#5**  
                         **Coordinator/Planetary Defense Program Officer, NASA**  
                         **TBD**
- 1:00 PM**      Working Lunch for Members, Speakers, Registered Guests, and Staff (60 minutes)  
Great Hall
- 2:00 PM**      **NASA Planetary Protection Office Update**      **Dr. Elaine Seasley**  
*(45-minute presentation & 75-minute discussion period)*      **Deputy Planetary Protection Officer**  
                                                                                                 **NASA-HQ**
- 4:00 PM**      Break (15 minutes)
- 4:15 PM**      **Updates from COSPAR PPP**      **Dr. Athena Coustenis**  
*(45-minute presentation & 30-minute discussion period)*      **Chair, COSPAR PPP**  
                                                                                         **Dr. Peter Doran and Mr. Niklas Hedman**  
                                                                                         **Vice-Chairs, COSPAR PPP**
- 5:30 PM**      MEETING ADJOURNS

**Keynote Space Science Week Public Lecture**

**DINNER – BY INVITATION ONLY**

- 5:30 PM**      Working Dinner for Members, Speakers, and Invited Guests in the West Court

**PUBLIC LECTURE SESSION**

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

[CLICK HERE TO JOIN](#)

- 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**

## **COMMITTEE ON PLANETARY PROTECTION**

### **MARCH 19-22, 2024**

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



**COMMITTEE ON PLANETARY PROTECTION**  
**MARCH 19-22, 2024**

**THURSDAY, MARCH 21, 2024 IN THE LECTURE ROOM**

**OPEN SESSION**

Livestream Link: <https://vimeo.com/event/4088823>

**CLICK HERE TO JOIN**

- 10:00 AM**      **Mars Toxicology, Risks to Crew, Knowledge Gaps**      **Dr. James D. Polk**  
(15-minute presentation & 15-minute discussion period)      **Chief Health and Medical Officer, NASA**
- 10:15 AM**      Break (15 minutes)
- 10:30 AM**      **Panel: COSPAR Policy on Icy Worlds**  
(90-minute discussion period)  
**Panelists:** **Dr. Peter Doran, Louisiana State University**  
                 **Dr. Athena Coustenis, Centre national de la recherche scientifique**  
                 **Dr. Marc Neveu, Goddard Space Flight Center**  
                 **Dr. Louise Prockter, Johns Hopkins Applied Physics Laboratory**  
                 **Dr. Lynnae Quick, Goddard Space Flight Center**  
                 **Dr. Britney Schmidt, Cornell University**  
                 **Dr. Steve Vance, Jet Propulsion Laboratory**
- 12:00 PM**      Working Lunch for Members, Speakers, Registered Guests, and Staff (60 minutes)  
Great Hall
- 1:00 PM**      Meeting Adjourns to Executive Session

**COMMITTEE ON PLANETARY PROTECTION**  
**MARCH 19-22, 2024**

**FRIDAY, MARCH 22, 2024 IN THE LECTURE ROOM**

**OPEN SESSION**

Livestream Link: <https://vimeo.com/event/4136038>

**CLICK HERE TO JOIN**

<b>9:30 AM</b>	<b>Dragonfly PP Implementation</b> <i>(25-minute presentation &amp; 20-minute discussion period)</i>	<b>Dr. Elizabeth "Zibi" Turtle</b> <b>Planetary Scientist, JHU/APL</b> <b>Dragonfly Principal Investigator</b>
<b>10:15 AM</b>	Break (15 minutes)	
<b>10:30 AM</b>	<b>Planetary Protection for Missions to Ceres</b> <i>(25-minute presentation &amp; 20-minute discussion period)</i>	<b>Dr. Julie Castillo-Rogez</b> <b>Directorate Scientist</b> <b>Planetary Science Directorate, JPL/Caltech</b>
<b>11:15 AM</b>	Break (15 minutes)	
<b>11:30 AM</b>	<b>Closing Comments by the Committee</b> <i>(30-minute discussion period)</i>	<b>Led by Len Fisk and Amanda Hendrix</b> <b>CoPP Co-Chairs</b>
<b>12:00 PM</b>	Meeting Adjourns to Executive 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.**