

# The National Academies of SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES  
AERONAUTICS AND SPACE ENGINEERING BOARD  
SPACE STUDIES BOARD

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## COMMITTEE ON BIOLOGICAL AND PHYSICAL SCIENCES IN SPACE (CBPSS)

October 13-14, 2021

### Draft Fall Public Meeting Agenda

Virtual Meeting (Livestream link provided at the end of the agenda.)

#### WEDNESDAY, OCTOBER 13, 2021

**Pacific/Eastern** Time Zones

#### CLOSED SESSION

**8:00 AM/11:00 AM** Closed Session  
(Committee and Staff Only)

**8:25 AM/11:25 AM** Break and Reconvene in Open Session (20 mins.)

#### OPEN SESSION

<b>8:45 AM/11:45 AM</b>	<b>BPS Decadal Update</b> (15 mins.)	Robert Ferl Krystyn Van Vliet Co-Chairs
<b>9:00 AM/12:00 PM</b>	<b>Biological and Physical Sciences Division Status</b> - Status and Planning (30 mins.) - Q&A (10 mins.)	Craig Kundrot NASA SMD BPS
<b>9:40 AM/12:40 PM</b>	<b>Biological and Physical Sciences Division Deep Dive: Discussion of Program Needs, Concerns, and Issues</b> (15 mins.)	Craig Kundrot NASA SMD BPS
<b>9:55 AM/12:55 PM</b>	Break (50 mins.)	
<b>10:45 AM/1:45 PM</b>	<b>Space Biology Program</b> - Status, Planning, Research Accomplishments (40 mins.) - Q&A (5 mins.)	Sharmila Bhattacharya NASA SMD BPS
<b>11:30 AM/2:30 PM</b>	<b>Space Biology Program Deep Dive: Discussion of Program Needs, Concerns, and Issues</b> (30 mins.)	Sharmila Bhattacharya NASA SMD BPS
<b>12:00 PM/3:00 PM</b>	Meeting Adjourns for the Day	

#### THURSDAY, OCTOBER 14, 2021

**Pacific/Eastern** Time Zones

#### OPEN SESSION

<b>8:00 AM/11:00 AM</b>	<b>Physical Sciences Program</b> - Status, Planning, Research Accomplishments (40 mins.) - Q&A (5 mins.)	Francis Chiaramonte NASA SMD BPS
<b>8:45 AM/11:45 AM</b>	<b>Physical Sciences Program Deep Dive: Discussion of Program Needs, Concerns, and Issues</b> (30 mins.)	Francis Chiaramonte NASA SMD BPS

<b>9:15 AM/12:15 PM</b>	<b>Fundamental Physics Program</b> (25 mins.) <ul style="list-style-type: none"> <li>- Status, Planning, Research Accomplishments</li> <li>- Discussion and Q&amp;A (5 mins.)</li> </ul>	Bradley Carpenter NASA SMD BPS
<b>9:45 AM/12:45 PM</b>	<b>Fundamental Physics Program Deep Dive: Discussion of Program Needs, Concerns, and Issues</b> (30 mins.)	Bradley Carpenter NASA SMD BPS
<b>10:15 AM/1:15 PM</b>	<i>Break</i> (60 mins.)	
<b>11:15 AM/2:15 PM</b>	<b>Human Research Program</b> (45 mins.) <ul style="list-style-type: none"> <li>- Status, Planning, Research Accomplishments</li> <li>- Trends, Forecasting Science Directions in the Community</li> <li>- Discussion and Q&amp;A (15 mins.)</li> </ul>	Steve Platts NASA HEOMD HRP
<b>12:15 PM/3:15 PM</b>	<b>Update on BPS activities for CLPS and Artemis</b> (15 presentation and 5 mins. Q&A)	Kevin Sato NASA SMD BPS
<b>12:35 PM/3:35 PM</b>	<b>Astrobiology</b> (20 mins.) <ul style="list-style-type: none"> <li>- Discussion and Q&amp;A (5 mins.)</li> </ul>	Mary Voytek NASA SMD
<b>1:05 PM/4:05 PM</b>	<b>Planetary Protection Update</b> (20 mins.) <ul style="list-style-type: none"> <li>- Discussion and Q&amp;A (5 mins.)</li> </ul>	J. Nick Benardini NASA Office of Planetary Protection
<b>1:30 PM/4:30 PM</b>	<i>Break and Reconvene in Closed Session</i> (15 mins.)	

#### CLOSED SESSION

<b>1:45 PM/4:45 PM</b>	<b>Closed Session (Committee and Staff Only)</b>
<b>3:00 PM/6:00 PM</b>	<i>Meeting Adjourns</i>

#### REMOTE CONNECTION DETAILS

##### Meeting Open to the Public

**Livestreaming Link:** <https://livestream.com/accounts/7036396/events/9878690>

#### GENERAL NOTES

##### The following information is provided for any members of the general public who may be in attendance:

This meeting is being held to gather information to help the committee in its charge. This committee will examine the information and material obtained during this, and other public meetings, in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn nor will recommendations be made. Observers who draw conclusions about the committee's work based on this meeting's discussions will be doing so prematurely.

Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the project. Any inference about an individual's position are therefore also premature.

#### RECORDING OF THE MEETING

This meeting will be recorded on Zoom by the National Academies of Sciences, Engineering, and Medicine ("The Academies"). Please be aware that by attending the meeting, you consent to your voice and likeness being for use on the Committee's website and in any media now known or hereafter devised in perpetuity, and you release The Academies from any liability due to such usage.

**COMMITTEE ON BIOLOGICAL AND PHYSICAL SCIENCES IN SPACE WEBSITE:** <https://www.nationalacademies.org/our-work/committee-on-biological-and-physical-sciences-in-space>