

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

**October 19-21, 2022**

**DRAFT PUBLIC AGENDA – FALL MEETING**

(Subject to change)

**Keck Center – 500 Fifth Street, NW – 2<sup>nd</sup> Floor, Room 208 – Washington D.C 20001**

Note: Pacific Time **Red Bold**/Eastern Time **Black Bold**

WEDNESDAY, OCTOBER 19		
CLOSED SESSION		
5:00 AM/8:00 AM	COMMITTEE AND STAFF ONLY	
6:45 AM/9:45 AM	Closed Session Adjourns and Short Break / Reconvene in Open Session (15 mins.)	
OPEN SESSION		
7:00 AM/10:00 AM	Welcome (5 mins.)	Co-Chairs Dava Newman and Doug Matson (Virtual)
7:05 AM/10:05 AM	Biological and Physical Sciences Division Status <ul style="list-style-type: none"><li>- Status and Planning (30 mins.)</li><li>- Q&amp;A (10 mins.)</li></ul>	Diane Malarik, NASA SMD BPS
7:45 AM/10:45 AM	Research Resource Trends and Challenges (45 mins presentation & 30 mins. Q&A)	Diane Malarik, NASA SMD BPS
9:00 AM/12:00 PM	Working Lunch in Conference Room (60 mins.)	
Biological and Physical Sciences Workforce Development Panel Sessions		
10:00 AM/1:00 PM	Panel: Surveying the Current Landscape (100 mins. [15 minute talk per person; 15 mins. Moderated Discussion, and 40 mins Q&A])  Topic: The biological and physical sciences in space (BPS) are largely supported by ground-based researchers, with space-based researchers and commercial space partners beginning to assume a larger role. How are we currently training the people who occupy or will occupy these positions in BPS and space science in general and what is the present outlook?  Moderator: Jana Stoudemire  Space Careers: A Universe of Options  Fostering a Healthy Research Community in NASA SMD  Building a Commercial Space Workforce	
		Domingo Angeles, Bureau of Labor Statistics  Michael New, NASA SMD  Elaine Ho, NASA Office of STEM Engagement
11:40 AM/2:40 PM	Break (20 mins.)	

## Biological and Physical Sciences Workforce Development Panel Sessions (continued)

**12:00 PM/3:00 PM**

### **Panel: Possibilities for the Future: Lessons and Approaches from Federal Initiatives**

*(100 mins. [15 minute talk per person; 15 mins. Moderated Discussion, and 40 mins Q&A])*

**Topic:** The biological and physical sciences in space are seeing new research opportunities on the ground, in low Earth orbit, and beyond. What practices in workforce development can be adopted to capitalize on these new opportunities, and what made these practices successful during their initial application?

*Moderator: Jessica Scott*

#### **Supporting Early Career Researchers at NIH**

Emily Tonorezos,  
Office of Cancer Survivorship, NIH

#### **Workforce Development Through Public-Private Partnerships**

Simon Malcomber,  
Directorate for Biological Sciences, NSF

#### **BPS: Next, Current, & Future Generations**

Lisa Carnell,  
NASA SMD BPS (Virtual)

**1:40 PM/4:40 PM**

*Open Session Adjourns and Short Break / Reconvene in Closed Session (20 mins.)*

### **CLOSED SESSION**

**2:00 PM/5:00 PM**

### **COMMITTEE AND STAFF ONLY**

**8:00 PM**

*Meeting Adjourns for the Day*

## **THURSDAY, OCTOBER 20**

### **CLOSED SESSION**

**5:00 AM/8:00 AM**

### **COMMITTEE AND STAFF ONLY**

### **OPEN SESSION**

**6:00 AM/9:00 AM**

**Welcome** (5 mins.)

Co-Chairs Dava Newman and  
Doug Matson (Virtual)

**6:05 AM/9:05 AM**

#### **Physical Sciences Program** (45 mins.)

- Status, Planning, Research Accomplishments (40 mins.)
- Q&A (5 mins.)

Francis Chiaramonte,  
NASA SMD BPS

**6:50 AM/9:50 AM**

#### **Fundamental Physics Program** (25 mins.)

- Status, Planning, Research Accomplishments (20 mins.)
- Discussion and Q&A (5 mins.)

Mike Robinson,  
NASA SMD BPS

**7:15 AM/10:15 AM**

*Break (15 mins.)*

**7:30 AM/10:30 AM**

#### **Space Biology Program** (45 mins.)

- Status, Planning, Research Accomplishments (40 mins.)
- Q&A (5 mins.)

Sharmila Bhattacharya,  
NASA SMD BPS  
(Virtual)

<b>8:15 AM/11:15 AM</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>	Steven Platts, NASA HRP (Virtual)
<b>9:00 AM/12:00 PM</b>	<i>Working Lunch in Conference Room (60 mins.)</i>	
<b>10:00 AM/1:00 PM</b>	<b>Space Technology Mission Directorate Collaborations</b> (70 mins.) <ul style="list-style-type: none"> <li>- Status, Planning, Research Accomplishments (50 mins.)</li> <li>- Q&amp;A (20 mins.)</li> </ul>	James Broyan, NASA STMD  John Dankanich, NASA MSFC
<b>11:10 AM/2:10 PM</b>	<b>Artemis: Biological and Physical Sciences Next Big Step for Scientific Research</b> (60 mins.)	Kevin Sato, NASA SMD BPS
<b>12:10 PM/3:10 PM</b>	<i>Break (20 mins.)</i>	
<b>12:30 PM/3:30 PM</b>	<b>Workforce and Diversity: Future Directions for AIAA</b> (60 mins.)	Dan Dumbacher, American Institute of Aeronautics and Astronautics
<b>1:30 PM/4:30 PM</b>	<i>Meeting Adjourns to Closed Session</i>	

#### CLOSED SESSION

<b>1:30 PM/4:30 PM</b>	<b>COMMITTEE AND STAFF ONLY</b>
<b>2:15 PM/5:15 PM</b>	<i>Meeting Adjourns for the Day</i>

#### FRIDAY, OCTOBER 21 CLOSED SESSION

<b>5:00 AM/8:00 AM</b>	<b>COMMITTEE AND STAFF ONLY</b>
<b>10:00 AM/1:00 PM</b>	<i>Meeting Adjourns</i>

#### GENERAL NOTES

##### COMMITTEE ON BIOLOGICAL AND PHYSICAL SCIENCES IN SPACE WEBSITE:

<https://www.nationalacademies.org/our-work/committee-on-biological-and-physical-sciences-in-space>

##### RECORDING OF THE MEETING

NOTICE: The Zoom service allows audio and any materials exchanged or viewed during the session to be recorded and shared. Please be aware that by participating in this activity, you consent to your voice, likeness, and any materials you provide, being recorded for use and dissemination, without payment of any compensation for such use, in any language, format, or media now known or later devised, and you release the National Academies of Sciences, Engineering, and Medicine from any and all claims, liability, or damages arising from any such use. The Academies will proceed in reliance upon such consent and release. If you do not consent to the foregoing, please do not join the session.

##### 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 conduct its study. 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 at this time and no recommendations will be made. In fact, the committee will deliberate thoroughly before writing its draft report. Moreover, once the draft report is written, it must go through a rigorous review by experts who are anonymous to the committee, and the committee then must respond to this review with appropriate revisions that adequately satisfy the Academy's Report Review committee and the chair of the NRC before it is considered an NRC report. Therefore, observers who draw conclusions about the committee's work based on today'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 regarding findings or recommendations in the final report are therefore also premature.

#### REMOTE CONNECTION DETAILS

**To view the open sessions of the CBPSS Fall Meeting, please use the link provided below.**

<https://vimeo.com/event/2488860>