

Committee on Biological and Physical Sciences in Space Fall 2024 Meeting

October 8-10, 2024

Hybrid Meeting – Public Agenda

Arnold & Mabel Beckman Center, 100 Academy Way Irvine, CA | The Board Room

All Times are in PDT

TUESDAY, OCTOBER 8, 2024

EXECUTIVE SESSION

9:50 AM Meeting Adjourns to Open Session; Break (10 minutes)

OPEN SESSION

Remote Access: <https://vimeo.com/event/4538315>

10:00 AM	NASA BPS Update <i>(30 minute presentation & 30 minute discussion period)</i>	Lisa Carnell, NASA & Diana Ly, NASA
11:00 AM	NASA BPS Space Biology Program, “Precision Health” Goal Update <i>(20 minute presentation & 10 minute discussion period)</i>	Lynn Harrison, NASA (virtual)
11:30 AM	NASA BPS Space Biology Program, “Space Crops” Goal Update <i>(20 minute presentation & 10 minute discussion period)</i>	Elison Blancaflor, NASA (virtual)
12:00 PM	Working Lunch for Members, Speakers, and Staff (60 minutes)	
1:00 PM	NASA BPS Physical Sciences Program, “Foundations” Goal Update <i>(30 minute presentation & 15 minute discussion period)</i>	Brad Carpenter, NASA
1:45 PM	NASA BPS Fundamental Physics Program “Quantum Leaps” Goal Update <i>(20 minute presentation & 10 minute discussion period)</i>	Mike Robinson, NASA (virtual)
2:15 PM	Break (30 minutes)	

CBPSS Fall 2024 Meeting
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2:45 PM **Panel: Transitioning from the ISS to Commercial Platforms**
(30 minute presentations & 45 minute discussion period)

Moderator: **Jana Stoudemire, CBPSS Member**
Panelists: **Kirt Costello, NASA**
 Robyn Gatens, NASA (virtual)
 Francisco Cordova, CASIS (virtual)

5:00 PM Meeting Adjourns to Executive Session (Committee and Staff Only)

WEDNESDAY, OCTOBER 9, 2024

EXECUTIVE SESSION

10:00 AM Meeting Adjourns to Open Session; Break (30 minutes)

OPEN SESSION

Remote Access: <https://vimeo.com/event/4538319>

10:30 AM **Retrospective on Blue Origin Flight NS-26** **Rob Ferl (virtual) & Anna-Lisa Paul**
(45 minute presentation & 15 minute discussion period) **University of Florida**

11:30 AM **NASA BPS Lunar Science Program** **Kevin Sato, NASA**
“Space Labs” Goal Update
(30 minute presentation & 15 minute discussion period)

12:15 PM Working Lunch for Members, Speakers, and Staff (75 minutes)

1:30 PM **Panel: The Science of the PFaST (Probing the Fabric of Space-Time) Campaign**
(20 minute presentations & 30 minute discussion period)

Moderator: **Clayton Simien, CBPSS Member**
Panelists: **Carolyn Mercer, NASA (virtual)**
 Andrei Derevianko, University of Nevada, Reno (virtual)
 Jason Williams, JPL

3:00 PM Break (30 minutes)

3:30 PM **Panel: Working Towards MATRICES (Manufacturing mATeRials and proCEsses for Sustainability in Space) Campaign**
(20 minute presentations & 15 minute discussion period)

Moderator: **Ajay Malshe, CBPSS Member**
Panelists: **John Vickers, NASA**
 Danielle Wood, MIT (virtual; recorded)

4:30 PM **Panel: Enabling the Study of Polar Radiation of Model Organisms**
(20 minute presentations & 20 minute discussion period)

Moderator: **Martha Hotz Vitaterna, CBPSS**
Member Panelists: **Michael Pecaut, Loma Linda University**
 William Gerstenmaier, SpaceX

5:30 PM Meeting Adjourns to Executive Session (Committee and Staff Only)

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Committee on Biological and Physical Sciences in Space Website: <https://www.nationalacademies.org/our-work/committee-on-biological-and-physical-sciences-in-space>