



DIVISION ON ENGINEERING AND PHYSICAL SCIENCES  
AERONAUTICS AND SPACE STUDIES BOARD

# Committee on Biological and Physical Sciences in Space (CBPSS)

Disclaimer: These slides are a personal assessment of issues discussed during recent Committee on Biological and Physical Sciences in Space meetings, and should not be cited or quoted - as the views expressed do not necessarily reflect those of Committee, the SSB, the ASEB or the Academies.

# CBPSS Status

- **Membership**
- **Spring Meeting and workshop: Mar. 23-25**
- **Decadal Status**
- **Top Level Issues**

# CBPSS Membership

Dava J. Newman, Massachusetts Institute of Technology (Chair)

Mary L. Boussein, Harvard Medical School

Steven Collicott, Purdue University

Vijay K. Dhir, University of California, Los Angeles

Alain Karma, Northeastern University

Mohammad Kassemi, Case Western Reserve University

Douglas M. Matson, Tufts University

Wayne Nicholson, University of Florida

James A. Pawelczyk, The Pennsylvania State University

Marylyn D. Ritchie, University of Pennsylvania

Jessica Scott, Memorial Sloan Kettering Cancer Center

Pol D. Spanos, Rice University

Jana Stoudemire, Space Tango

James T'ien, Case Western Reserve University

~~Krystyn J. Van Vliet, Massachusetts Institute of Technology~~ *Stepped down to serve on Decadal Study committee*

~~Robert J. Ferl, University of Florida (Co-Chair)~~ *Stepped down to serve on Decadal Study committee*



# CBPSS Status

Space Science Week Meeting, March 23-25:

## [Workshop : Using Commercial Lunar Payload Services \(CLPS\) to Achieve Lunar Biological and Physical Science Objectives](#)

- Workshop organized at the request of NASA
- BPS community is new to CLPS opportunities
- Extensive planning and organizational effort by committee, including coordination with NASA on educating the BPS community on CLPS prior to workshop
  - [NASA CLPS webinar, Jan. 14](#)
  - [Lunar Surface Science workshop on space biology, Jan. 20-21](#)
  - Reference library for speakers
- Meeting intended to focus on how BPS community *can support and utilize commercial lunar payload services*.
- A rapporteur-written summary of the workshop proceedings will be published later this year



# CBPSS Status

## Decadal Status

- After several years of supporting community preparations and scope development, CBPSS has concluded its role in preparing for the 2023 Decadal survey in biological and physical sciences
- The task for the *Decadal Survey on Biological and Physical Sciences Research in Space 2023-2032* is posted on-line at <https://www.nationalacademies.org/our-work/decadal-survey-on-life-and-physical-sciences-research-in-space-2023-2032>
- Former CBPSS members, Rob Ferl and Krystyn J. Van Vliet, have been appointed as co-chairs of the decadal survey, and I understand committee nominations are under development
- ASGSR and NASA are jointly supporting a [series of white paper team development activities](#) for the Decadal



# Top Level Issues for CBPSS

- **Significant membership changes expected over the course of 2021**
- **As always, the transition of microgravity research from ISS to a post-ISS era remains a central issue in front of the community**
- **Typically the level of standing committee activity decreases during a decadal survey, but we know that NASA BPS has many issues outside the survey they are interested in addressing**

