

**Committee on Earth Sciences and Applications from Space  
Fall Meeting 2022  
Hybrid Meeting**

**October 17-18, 2022  
Keck Center Room 206  
500 Fifth Street, NW  
Washington, DC, 20001**

**October 17, 2022**

*Breakfast available at 9:30 am in room*

**CLOSED SESSION (committee members and staff only)**

10:30 a.m. – 10:50 a.m.

**OPEN SESSION**

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|------------|---|---|
| 10:50 a.m. | Meeting Convenes, Welcome and Introductions   | Everette Joseph, Co-Chair<br>Steve Running, Co-Chair  |
| 11:00 a.m. | <b>Assessment of Commercial Space Platforms for Earth<br/>Science Instruments: Discussions with the Study Sponsor</b>   |   |
|            |   | Julie Robinson, Dep. Director Earth Science, NASA   |
| 11:45 p.m. | <b>Rationale for Science Station (ISAM)</b>   | Bhavya Lal, NASA AA   |
| 12:00 p.m. | Break/Lunch (45 minutes)  |   |
| 12:45 p.m. | <b>Hosted Payloads on ISS: Lessons-Learned</b>  |   |
|            | <ul style="list-style-type: none"> <li>Intro to ISS Concept of Operations (10 min)</li> <li>Benefits of Standard Instrument Interfaces (10 min)</li> <li>Cost: ISS as payload host vs. spacecraft (10 min)</li> <li>Servicing payloads on ISS (15 min)</li> </ul> | <p>Matt Bennett, Project Systems Engineer<br/>JPL</p> <p>Matt Bennett, JPL</p> <p>Greg Stover, ESSP Program Manager<br/>NASA LaRC</p> <p>Greg Stover, NASA LaRC</p> |
| 1:30 p.m.  | <b>An OSAM-based Science Station</b><br>(Session lead: Jason Hyon, Chief Technologist for Earth Sciences, JPL)  |   |
|            | 500 Fifth Street, NW, Ninth Floor, Washington, DC 20001   |   |
|            | Phone 202.334.3477 Fax 202.334.3701 E-mail <a href="mailto:ssb@nas.edu">ssb@nas.edu</a> <a href="http://www.nationalacademies.org/ssb">www.nationalacademies.org/ssb</a>  |   |

- Enabling Technology Rudra Mukherjee, JPL Robotics
- Discussions with Industry Representatives
  - Orbital Reef, A Commercial Station Erika Wagner, Blue Origin
  - On-Orbit Servicing Jared Rieckewald, Northrup Grumman
  - Persistent Platform Al Tadros, Redwire Space
  - Science Benefits Graeme Stephens, JPL
  - Wrap-Up Jason Hyon, JPL

3:00 p.m. *Break (20 min)*

- 3:20 p.m. **Reactions and Roundtable Discussions**
- Steve Battel, Battel Engineering Inc. (20 min)
  - Dave Schimel, JPL (20min)
  - Roundtable Discussions (30 min)

- 4:30 p.m. **Addressing the 2017 Decadal Survey Priorities with the Strawman Large Platform – I (continues on Oct. 18)**
- Review of Survey-Recommended Designated Observables and Earth System Explorers: Instruments, Orbits, and Other Requirements
  - Large Platform as a host for Earth Venture instruments

6:00 p.m. *Meeting Adjourns to new location*

6:30 p.m. *Working Dinner at (Taffer's Tavern, 6<sup>th</sup> street NW)*

8:30 p.m. *Meeting adjourns for the day*

## October 18, 2022

### CLOSED SESSION (committee members and staff only)

10:00 a.m. – 11:00 a.m.

### OPEN SESSION

- 11:00 a.m. **Update from NASA ESD** Karen St. German, ESD Director
- Programs and Plans
  - Midterm ASSESSMENT OF THE 2017 Decadal Survey
- 12:30 p.m. *Break (45 minutes)*
- 1:15 p.m. **Update from USGS** TBD

2:00 p.m.      **Update from NOAA NESDIS**      Steve Volz, NOAA NESDIS AA

2:25 p.m.      **Addressing the 2017 Decadal Survey Priorities with the Large Platform – II**

4:00 p.m.      *Break and Committee Reconvenes in CLOSED Session*

**CLOSED SESSION (committee members and staff only)**

4:00 p.m. - 5:30 p.m.

5:30 p.m.      *Meeting Adjourns*

Last updated: October 17, 2022

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

This meeting is being held to facilitate dialogue among the participants. This roundtable will examine the information and material obtained during this, and other 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 by the roundtable. Therefore, observers should draw conclusions about the roundtable's work based on today's discussions. Furthermore, individual roundtable members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given member may not necessarily reflect the position he or she may actually hold on the subject under discussion.

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#### Meeting Logistics Notes

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**Keck Center:** Is located at 500 Fifth St. NW, (we're in Conference Room 206 on the 2<sup>nd</sup> floor) in Washington's Penn Quarter district, adjacent to Judiciary Square and the Verizon Center. The closest Metro stations are Gallery Place/Chinatown (Red, Green and Yellow lines; take "7th and F St." exit and turn left) and Judiciary Square (Red line; take National Building Museum exit and turn left). Directions available at the following website: <http://www.nationalacademies.org/about/contact/nax.html>.

- **Keck Security/ID Required:** Meeting attendees entering the building will need to show a photo ID to the Security Guard, who checks the ID against the attendee list.
- **Keck Parking:** There is plenty of free parking in the Keck Center's underground lot. Access to the lot is off of Sixth Street (between E and F Streets).
- **Masking and Vaccination Requirements:** The CDC recently updated its guidelines on masking, which affect federal contractors such as the National Academies. Masks are not required in our facilities. Of course, anyone may choose to wear a mask in our facilities at any time, and we urge everyone to be respectful of our personal decisions. Visitors will still be required to show their up-to-date vaccination cards for entrance to our facilities. Members of the public who wish to attend should contact the study director at [acharo@nas.edu](mailto:acharo@nas.edu)
- **Wi-Fi Connection:** To connect to the Wi-Fi choose "Visitor Network" then open up a browser and click "Accept terms and conditions." You will then be connected to the internet.
- **Meals:** Breakfast and lunch will be available at the meeting. In order to remain in compliance with government guidelines that preclude civil servants from accepting meals, we have provided a break-down for civil servants needing to reimburse those costs. The reimbursement cost of breakfast is \$15, \$16 for lunch, and \$50 for dinner. Checks, payable to the National Academy of Sciences, are preferred. Or, Monumental Open Door Market is stocked with sandwiches, salads and a variety of snacks, the market offer fresh selections and are enabled with self-check-out for your convenience. The Keck Center market is in the serving area on the third floor of the atrium.