

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES
SPACE STUDIES BOARD

COMMITTEE ON SOLAR AND SPACE PHYSICS

Fall Meeting

October 22-24, 2019

National Academy of Sciences Building

2101 Constitution Avenue, NW

Washington, DC

Room 120

Tuesday October 22, 2019

Room 120

7:30 AM *Breakfast available for committee members and invited guests*

OPEN SESSION

8:30 AM **Welcome and Meeting Overview** **Sarah Gibson and Maura Hagan, Co-Chairs**

8:45 AM **NASA Heliophysics Update** **Nicola Fox, NASA**

9:30 AM **NSF Geospace Update** **Mike Wiltberger, NSF**

10:00 AM **NSF Astronomy Update** **David Boboltz, NSF**

10:15 AM *Break*

10:45 AM **NOAA SWPC Update** **Howard Singer, NOAA**

11:15 AM **Introduction of short report topic: statement of task** **Sarah Gibson and Maura Hagan, Co-Chairs**

11:30 AM **Round table discussion with NSF, NASA, and NOAA SWPC**

12:30 PM *Lunch will be available for committee members and invited guests; discussion will continue*

1:30 PM **Panel discussion of science topics**
Kinds of solar and space physics science that would be enabled by an agile response to rideshare opportunities, at locations that would provide global perspectives, unique views, or continuous coverage, among others;

Phil Chamberlin, University of Colorado, Boulder
Lawrence Kepko, Goddard Space Flight Center
Gang Lu, High Altitude Observatory, NCAR
Georgia de Nolfo, Goddard Space Flight Center
Angelos Vourlidas, JHU Applied Physics Lab

3:30 PM *Break*

4:00 PM **Panel discussion of payloads/instrumentation**
Types of payloads that are suited to rideshare opportunities, because they are scientifically valuable in single or multiple locations and rapidly deployable with short development times or that can be shelved until a launch becomes available;

Jonny Dyer, Lyft
Craig Kletzing, The University of Iowa
David Klumpar, Montana State University
Clarence Korendyke, Naval Research Lab
Kristina Lynch, Dartmouth College
Neil Murphy, NASA Jet Propulsion Lab

6:00 PM **Activities suspended to reconvene in open session for a working dinner.**

6:30 PM **Working dinner**

Wednesday October 23, 2019

***Please Note* The meeting will be held in Room 280 on Wednesday**

7:30 AM *Breakfast available for committee members and invited guests*

CLOSED SESSION

8:30 AM **Committee-only discussion**

OPEN SESSION

9:00 AM **Panel discussion of implementation/programmatic**
Considerations for the development and implementation of a new HPD program that would allow agile responses to future short-notice rideshare opportunities.

Amir Caspi, Southwest Research Institute
Sabrina Herrin, The Aerospace Corporation
Larry Paxton, JHU Applied Physics Lab
Julianna Scheiman, SpaceX
Erika Wagner, Blue Origin

11:00 AM *Break*

11:15 AM **General discussion of the report topics and remaining questions from the panels**
Committee and guests

12:00 PM *Lunch will be available for committee members and invited guests; discussion will continue*

CLOSED SESSION

1:00 PM **Committee-only discussions**

5:00 PM *Meeting adjourns for the day*

Thursday October 24, 2019

CLOSED SESSION

8:30 AM **Committee-only discussions**

2:00 PM *Meeting Adjourns*

REMOTE CONNECTION DETAILS

Zoom Web Conference and Telecon Instructions

Open Session Link: <https://nasem.zoom.us/j/987182660>

Meeting ID: **987-182-660**

(please use the same link for both days)

Join from a computer:

1. Click on the URL in the agenda. A popup will appear that says “Open URL:Zoom Launcher;” Click the “Open” button and let Zoom load (may take a minute).
2. Once loaded, Zoom will automatically display another pop-up for the audio connection. Please click the “call me” tab and enter the phone number you would like to be called at (i.e. home, office, mobile). Click “Call me” and follow the prompts.

Join by phone only:

1. Connection quality is much better via Zoom’s “Call me” feature from the webconference, so we strongly recommend that you connect this way.

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.

GENERAL NOTES

National Academy of Science Building: Is located at 2101 Constitution Avenue NW, in Washington's Foggy Bottom district. The closest Metro station is Foggy Bottom-GWU. Take the Orange or Blue Line to Foggy Bottom-GWU Metro stop, turn right when you exit the station, walk south down 23rd Street, NW for approximately 7 blocks. Turn left onto C Street, NW (after the State Department).

Cross 22nd Street.

The main entrance is in the Front of the building (2101 Constitution Ave.).

A secondary entrance is located at 2100 C Street.

NAS Building 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.

NAS Parking: There is limited parking available in the NAS lot. Access to the lot is located on Sixth Street (between E and F Streets).

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: Lunch and breakfast 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 and is \$16 for lunch. Checks, payable to the National Academy of Sciences, are preferred. Should you prefer there is also a refectory available on the for purchasing your meals in the building

NOTES FOR PRESENTERS

If your presentation contains unpublished data, ITAR controlled and/or other sensitive information, please be aware that the open sessions at the meeting may be recorded and/or webcast. Presentation materials given to the committee may be posted on a publicly accessible website. Please edit your presentations accordingly.

Mac users should assume that their presentation will be displayed via one of the NASEM's PCs. If your presentation is graphics heavy and best displayed via your own laptop, you should also bring a plain-vanilla pdf version of your presentation with you. The audience in the meeting room will see your presentation via your laptop and we will webcast the pdf file.

At some point a staff member will be asking you to sign a consent form allowing us to use your presentation, specifically to post it on our website.