

# SPACE SCIENCE WEEK

The National  
Academies of

SCIENCES  
ENGINEERING  
MEDICINE



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## SPRING 2019 MEETING OF THE COMMITTEE ON SOLAR AND SPACE PHYSICS

March 26-28, 2019

NAS Building – 2101 Constitution Ave NW – Washington D.C.

Public Agenda

Tuesday March 26, 2019

MORNING PARALLEL BREAK-OUT SESSION  
COMMITTEE ON SOLAR AND SPACE PHYSICS (CSSP) – Room 125

7:30 AM Registration opens and breakfast is available in the Great Hall

8:30 AM CLOSED SESSION

### OPEN SESSION

10:15 AM	Welcome and Introductions	Sarah Gibson and Maura Hagan CSSP Co-Chairs
10:30 AM	Briefing: NASA Heliophysics	Nicola Fox, NASA
11:30 AM	Highlights from Heliophysics Advisory Committee	Michael Liemohn, U. Michigan ( <i>via telecon</i> )
12:00 PM	Working Lunch	

Tuesday March 26, 2019

JOINT PLENARY SESSION in the Kavli Auditorium

Opening Session:  
NASA Science Program Update

1:00 PM	Welcome	Colleen Hartman, SSB/ASEB Director
1:05 PM	NASA Science Mission Directorate: FY 2020 Budget, Lunar Program, Science at the Gateway, and D&I <i>Presentation 25 min, Q&amp;A 30 min</i>	Thomas Zurbuchen, NASA-SMD

**Focus Session:**  
**Areas of International Cooperation in the Program of Record and Near- to Long-term Challenges**

<b>2:00 PM</b>	<b>International Panel A</b> <i>90 min (15 minute talk per person; Q&amp;A 30 min)</i> <ul style="list-style-type: none"> <li>• European Space Agency – Space Science (ESA-SCI)</li> <li>• Chinese Academy of Sciences – National Space Science Center (CAS-NSSC)</li> <li>• JAXA Institute of Space and Astronautical Science (JAXA/ISAS)</li> <li>• Committee on Space Research (COSPAR)</li> </ul>	<b>Steve Running, Moderator</b>  <b>Fabio Favata, ESA-SCI</b> <b>Xiaolong Dong, CAS-NSSC</b> <b>Masaki Fujimoto, JAXA/ISAS</b> <b>Len Fisk, COSPAR President</b>
<b>3:30 PM</b>	<i>Break</i> <i>Refreshments available in the West Court</i>	
<b>4:00 PM</b>	<b>International Panel B</b> <i>90 min (15 minute talk per person; Q&amp;A 30 min)</i> <ul style="list-style-type: none"> <li>• European Space Agency – Human and Robotic Exploration</li> <li>• Canadian Space Agency – Space Exploration Development (CSA-SED)</li> <li>• NOAA National Environmental Satellite, Data, and Information Service (NESDIS)</li> <li>• NASA Science Mission Directorate (SMD)</li> </ul>	<b>Alvaro Giménez, Moderator</b>  <b>David Parker, ESA-HRE</b> <b>Erick Dupuis, CSA-SED</b> <b>Steve Volz, NOAA</b> <b>Thomas Zurbuchen, NASA-SMD</b>
<b>5:30 PM</b>	<b>Closing Comments</b>	<b>John Grunsfeld, Astrophysicist/Astronaut</b>
<b>6:00 PM</b>	<i>Working Dinner (space is limited)</i>	

**Wednesday March 27, 2019**

**COMMITTEE ON SOLAR AND SPACE PHYSICS (CSSP) – Room 125**

<b>7:30 AM</b>	<i>Registration opens and breakfast is available in the Great Hall</i>	
<b>OPEN SESSION</b>		
<b>9:00 AM</b>	<b>Briefing: NSF Geospace Section</b>	<b>Ilia Roussev, NSF</b>
<b>9:45 AM</b>	<b>Briefing: NSF Division of Astronomical Sciences</b>	<b>David Boboltz, NSF</b>
<b>10:15 AM</b>	<b>Discussion</b>	<b>Committee and Guests</b>
<b>10:30 AM</b>	<i>Break</i>	
<b>10:45 AM</b>	<b>Briefing: NOAA Space Weather Prediction Center (SWPC)</b>	<b>Howard Singer, NOAA</b>
<b>11:30 AM</b>	<b>SWORM Activities Update</b>	<b>Jackie Keshian, OSTP</b>
<b>12:00 PM</b>	<i>Working Lunch</i>	

**Focus session part 1: Agile Responses to Rideshare Opportunities for NASA Heliophysics**

Goal: To develop the scope and specific questions for a statement of task for a future CSSP short report

<b>1:00 PM</b>	<b>Agile Rideshare Concept</b>	<b>Nicky Fox, NASA and Guests</b>
<b>1:30 PM</b>	<b>Group Discussion – Scope</b> Topics include: How shared ride works, new expected shared rides, types of instruments (singles, suites, cubesats, smallsats)	

Zoom information is provided at the end of this agenda.

2:00 PM	<b>Group Discussion – Lessons Learned from Other Programs</b>	<b>Committee and Guests</b>
2:40 PM	<i>Move to CAPS meeting room for joint session</i>	
2:45 PM	<b>Intersection of Interstellar Probe with Planetary Science</b>	<b>Michael Paul, JHU APL</b>
3:30 PM	<i>Break and return to CSSP meeting Room</i>	

**Focus session part 2: Agile Responses to Rideshare Opportunities for NASA Heliophysics**

4:00 PM	<b>Group Discussion – Expected Challenges</b> Topics include: Shelf life, lead time, common interface design, etc.	<b>Committee and Guests</b>
4:30 PM	<b>Group Discussion – Input Needed for Future CSSP Meeting and Report</b> Topics include: Community input – framing of questions, additional expertise needed, potential speakers	<b>Committee and Guests</b>
5:00 PM	<b>General Discussion – Drafting of a Statement of Task</b>	<b>Committee and Guests</b>
5:30 PM	<i>Working dinner (space is limited)</i>	

**PUBLIC LECTURE**  
**Kavli Auditorium**

7:00 PM	<b><i>Sea Level Rise from Melting Ice Sheets and What We Should Do About it</i></b> <i>Webcast link: <a href="https://livestream.com/NASEM/SeaLevelRise">https://livestream.com/NASEM/SeaLevelRise</a></i>	<b>Dr. Eric Rignot</b> <b>University of California Irvine and JPL</b>
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**Thursday March 28, 2019**

**COMMITTEE ON SOLAR AND SPACE PHYSICS (CSSP) – Room 125**

7:30 AM *Registration opens and breakfast is available in the Great Hall*

**Focus session: Demographics to inform the next decadal survey**

8:30 AM	<b>Retrospective on demographics for the 2013 decadal survey</b> <i>(via telecon)</i>	<b>Mark Moldwin, U. Michigan</b>
9:15 AM	<b>Conducting the 2011 Workforce Survey of Solar, Space &amp; Upper Atmospheric Physicists</b>	<b>Susan White, AIP</b>
10:00 AM	<i>Break</i>	
10:15 AM	<b>Parker Solar Probe Update</b> <b>Arik Posner, NASA</b>	<b>Andrew Driesman, JHU APL</b>
11:00 AM	<b>General Discussion</b>	<b>Committee and Guests</b>
12:00 PM	<b>CLOSED SESSION for Working Lunch</b>	

**OPEN SESSION**

1:15 PM	<b>Additional Discussion of Statement of Task and Input</b> <b>Gathering for Short Report</b>	<b>Committee and Guests</b>
2:30 PM	<i>Meeting adjourns</i>	

## GENERAL NOTES

**Pre-registration:** All participants, including committee members, invited speakers and other attendees, are strongly encouraged to preregister at <https://www.surveygizmo.com/s3/4808628/Space-Science-Week-2019>).

**Registration** will be located in the Great Hall during the event. Please check-in there to receive your badge.

**NAS Building:** Is located at 2101 Constitution Ave., NW, between the State Department and the Vietnam Veterans Memorial. Additional information about the NAS Building is available at <http://www.nationalacademies.org/about/contact/nax.html>.

**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.

**Metro:** The closest Metro station (0.5 miles) is Foggy Bottom (Blue and Orange lines; exit and turn right, then turn left once you have passed the State Department)—see <https://www.wmata.com/rider-guide/stations/foggy-bottom.cfm>.

**Parking:** Very limited parking is available onsite at the NAS. The 22 available parking spaces are first come first served. Other available parking options are as follows:

- Columbia Plaza – 23<sup>rd</sup> and Virginia Avenue NW.
- Colonial Parking – 20<sup>th</sup> Street, NW, between E and F Streets.

**Space Science Week Website:** [http://sites.nationalacademies.org/SSB/SSB\\_177653](http://sites.nationalacademies.org/SSB/SSB_177653)

**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 in its charge. 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 nor will recommendations be made. Observers who draw conclusions about the committee’s work based on this meeting’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 are therefore also premature.

## 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.

## REMOTE CONNECTION DETAILS

### Zoom Web Conference & Telecon Instructions

Join from a computer:

1. Click on the URL (below). 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 from a mobile device:

1. Download the Zoom app from your phone’s app store (if you don’t have it installed already).
2. Click on the URL (below), or open the Zoom app and enter the Meeting ID: (below), and press join. Enter your name if requested.
3. The Zoom app will automatically display a pop-up window for the audio connection. Select the “Call my Phone” option from the menu, enter your phone number, press call, and follow any 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.
2. If you are not able to do so, you can dial 1-877-853-5257 (Toll Free) and enter the Meeting ID: (below). International numbers are available at: <https://nasem.zoom.us/j/9990000101>

*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.*

Topic	Time	Meeting ID	Join URL
<b>TUESDAY, March 26</b>			
CSSP SSW Day 1 Open	10:00 am	628 491 774	<a href="https://nasem.zoom.us/j/628491774">https://nasem.zoom.us/j/628491774</a>
SSW Plenary Session	1pm – 6pm	999 000 0101	<a href="https://nasem.zoom.us/j/9990000101">https://nasem.zoom.us/j/9990000101</a>
<b>WENESDAY, March 27</b>			
CSSP SSW Day 2 Open	8:30 am	899 101 932	<a href="https://nasem.zoom.us/j/899101932">https://nasem.zoom.us/j/899101932</a>
PUBLIC LECTURE WEBCAST	7:00 pm	webcast only:	<a href="https://livestream.com/NASEM/SeaLevelRise">https://livestream.com/NASEM/SeaLevelRise</a>
<b>THURSDAY, March 28</b>			
CSSP SSW Day 3 Open AM	8:00 am	693 026 994	<a href="https://nasem.zoom.us/j/693026994">https://nasem.zoom.us/j/693026994</a>
CSSP SSW Day 3 Open PM	1:00 pm	883 451 814	<a href="https://nasem.zoom.us/j/883451814">https://nasem.zoom.us/j/883451814</a>