

# SPACE SCIENCE WEEK

The National  
Academies of | SCIENCES  
ENGINEERING  
MEDICINE



This agenda was last updated 3/26/2018

## SPACE SCIENCE WEEK SPRING 2018 MEETING OF THE COMMITTEE ON SOLAR AND SPACE PHYSICS March 27-29, 2018 NAS Building – 2101 Constitution Ave NW – Washington D.C

Tuesday March 27, 2018

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

COMMITTEE ON SOLAR AND SPACE PHYSICS  
Room 120

### CLOSED SESSION

9:00 AM Committee discussion

### OPEN SESSION

9:30 AM Briefing: NASA Heliophysics Peg Luce, NASA

10:30 AM *Break*

10:45 AM Highlights from Heliophysics Advisory Committee Jill Dahlburg, NRL

11:15 AM Briefing: NSF Geospace Section Michael Wiltberger, NSF

12:00 PM *Lunch*

### PLENARY SESSION

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

### Opening Session

1:00 PM Welcome Fiona Harrison, SSB Chair

1:05 PM Quick Update on Current SSB Activities Dick Rowberg, Interim SSB Director

### Focus Session on NASA Science Program

1:15 PM NASA-SMD Budget, Program, and Priorities Thomas Zurbuchen, NASA  
*Presentation 20 mins / Q&A 25 mins*

### Focus Session on International Collaboration – Program Briefs

2:00 PM Short 15-minute Talks From Agency Representatives

Zoom information is provided at the end of this agenda

- ESA Space Science – Fabio Favata, ESA-SCI
- ESA Human and Robotic Exploration – David Parker, ESA-HRE
- ESA Earth Observation Programs - Status and Future Challenges – Maurice Borgeaud, ESA-EO
- Chinese Academy of Sciences: Current and Future Programs – Ji Wu, CAS National Space Science Center
- JAXA Institute of Space and Astronautical Science – Hitoshi Kuninaka, JAXA-ISAS Deputy Director General
- JAXA ISAS Research – Masaki Fujimoto, JAXA-ISAS Research

**3:30 PM** *Break Available in the Great Hall*

**Focus Session on International Programs – Discussion on Collaboration**

**4:00 PM** **Personal Perspective on State of International Collaboration: Len Fisk, President of COSPAR**

**4:15 PM** **Moderated Q&A Sessions with NASA, COSPAR and International Agency Representatives**  
**Moderator: Fiona Harrison, SSB Chair**

**5:30 PM** **Closing Comments: SSB Chair**

*Public Meeting Adjourns*

**Wednesday March 28, 2018**

**COMMITTEE ON SOLAR AND SPACE PHYSICS**  
**Room 120**

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

**CLOSED SESSION**

**8:30 AM** **Committee discussion**

**OPEN SESSION**

**9:30 AM** **Briefing: NOAA Space Weather Prediction Center (SWPC)** **Bill Lapenta, NOAA**

**10:15 AM** *Break*

**10:30 AM** **Chinese Activities in Solar and Space Science** **Ji Wu, CAS National Space Science Center**

**11:00 AM** **Briefing: NSF Astronomy and DKIST update** **David Boboltz, NSF**

**12:00 PM** *Lunch*

**1:00 PM** **A Decadal Strategy for Earth Observation from Space (*joint briefing with CESAS*)**  
**Waleed Abdalati, University of Colorado Boulder, *co-chair***  
**William Gail, Global Weather Corporation, *co-chair***

**1:45 PM** **Meet Steve, a New Type of Aurora** **Elizabeth MacDonald, NASA**

**2:30 PM** **SWORM Activities Update** **Steven Clarke, OSTP**

3:00 PM *Break*

3:30 PM The Formation of the Slow Solar Wind and the Ground State of Space Weather  
Nicholeen Viall, NASA GSFC

4:00 PM Heliophysics Science Opportunities with the Deep Space Gateway James Spann, NASA

4:40 PM *Public meeting adjourns for the day, committee enters closed session*

CLOSED SESSION

4:40 PM Committee discussion

5:30 PM *Meeting adjourns for the day*

5:30 PM *Buffet dinner for committee members and others (by invitation) in the West Court*

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**Public Lecture – Kavli Auditorium**

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7:00 PM The Gravitational Wave Astronomical Revolution  
Dr. David Reitze, Executive Director of the LIGO Project, CalTech

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**Thursday March 29, 2018**

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**COMMITTEE ON SOLAR AND SPACE PHYSICS  
Room 120**

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

OPEN SESSION

8:30 AM Midterm study planning Committee and guests

9:00 AM Topics for future CSSP meetings and short reports Committee and guests

10:00 AM *Break*

10:30 AM Update on Parker Solar Probe and Virtual Tour Nicola Fox, JHU APL

CLOSED SESSION

11:30 AM Committee discussion

12:00 PM *Working lunch*

1:00 PM *Meeting adjourns*

## 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/zoomconference?m=dm0fun9LyXrhECcUWQt2Wwdh\\_9TUrhXG](https://nasem.zoom.us/zoomconference?m=dm0fun9LyXrhECcUWQt2Wwdh_9TUrhXG)

*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
<i>TUESDAY, March 27</i>			
CSSP SSW Day 1 Open	9:30 AM	452 527 600	<a href="https://nasem.zoom.us/j/452527600">https://nasem.zoom.us/j/452527600</a>
<i>PLENARY SESSION</i>	1:00 pm	806 674 1884	<a href="https://nasem.zoom.us/j/8066741884">https://nasem.zoom.us/j/8066741884</a>
<i>WENESDAY, March 28</i>			-
CSSP SSW Day 2 Open	9:30 AM	919 573 725	<a href="https://nasem.zoom.us/j/919573725">https://nasem.zoom.us/j/919573725</a>
<i>THURSDAY, March 29</i>			-
CSSP SSW Day 3 Open	8:30 AM	264 153 373	<a href="https://nasem.zoom.us/j/264153373">https://nasem.zoom.us/j/264153373</a>

## GENERAL NOTES

**Pre-registration:** All participants, including committee members, invited speakers and other attendees, are strongly encouraged to preregister at <http://www.surveymoz.com/s3/4142600/07f04547401e>).

**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\\_182835](http://sites.nationalacademies.org/SSB/SSB_182835)

### 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.