

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES
SPACE STUDIES BOARD

COMMITTEE ON SOLAR AND SPACE PHYSICS
October 5–7, 2016
Keck Center – 500 Fifth Street NW – Washington D.C.
Room 208

Wednesday October 5, 2016
Keck 208

OPEN SESSION

Remote Access

WebEx: <https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m9575fb6679717b42c105751c6e0e0746>

Meeting Password: solar

Dial In: 1-866-668-0721

Telecon Conference Code: 410 356 8429

9:05 AM	Welcome and Meeting Overview	Todd Hoeksema and Mary Hudson, Co-Chairs
9:15 AM	NASA Heliophysics Update	Steven Clarke, NASA
10:30 AM	<i>Break</i>	
11:00 AM	Status of SWAP Actions and Carryover into Next Administration	Bill Murtagh, OSTP
11:30 AM	Discussion	Committee and Guests
12:00 PM	<i>Lunch will be served in the meeting room; discussion will continue</i>	
1:00 PM	NSF Astronomy Update	Dave Boboltz, NSF
2:00 PM	NSF Geospace Update	Therese Jorgensen, NSF
3:00 PM	<i>Break</i>	
3:30 PM	Update on Solar Probe Plus	Joseph Smith, NASA
4:30 PM	Intro to Space Weather Discussion	Todd Hoeksema and Mary Hudson, Co-Chairs
5:00 PM	NSF perspectives on Focus Session Topics	Therese Jorgensen, NSF
5:30 PM	<i>Activities suspended to reconvene in open session for a working dinner.</i>	

Thursday October 6, 2016

OPEN SESSION

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- 9:00 AM** **Topics from the NASA Advisory Council Science Committee – Heliophysics** Jill Dahlburg, NRL
- 9:30 AM** **NOAA Update** (TBC)
- 10:15 AM** *Break*

Focus Session on Gaps in Space Weather Forecasting

- 10:30 AM** **Policy Gap:** Support for research to operations and operations to research **Bill Lapenta, NOAA
Elsayed Talaat, NASA
Ralph Stoffler, USAF**
- 11:15 AM** **Policy Gap:** Development and maintenance of complete community Space Weather models **Antti Pulkinnen, GSFC
Rodney Viereck, NOAA**
- 12:00 PM** *Lunch will be served in the meeting room; discussion will continue*
Exploring Farside Active Regions (15 minutes) **Lisa Upton, HAO**
Ionospheric Data Assimilation (15 minutes) via WebEx **Ryan Mcgranaghan, Dartmouth College**
- 1:00 PM** **Awareness Gap:** Diffuse responsibility and requirements from multiple agencies lead to uncertainty about how the scientific community can contribute effectively to Space Weather operations. **Terry Onsager, NOAA
Col Mike Gremillion, USAF**
- 1:45 PM** **Vision Gap:** What are our Space Weather horizon goals and how do they determine quantifiable tactical and strategic goals for operations and research? **Michael Bonadonna, OFCM
Elsayed Talaat, NASA**
- 2:30 PM** *Break*
- 3:00 PM** **Culture Gap:** Space Weather forecasting must be incorporated into the Solar and Space Physics science culture. **Committee and Guests**
- 3:45 PM** **Forecasting Long Term Solar Variability** **Andrés Muñoz-Jaramillo,
Georgia State University**
- 4:00 PM** **Science Gap:** SWPC and others have articulated some of the existing gaps in measurements, modeling, and operational forecasting. **Bill Lapenta, NOAA**

4:45 PM **Plugging the Gaps** **Committee and Guests**
5:30 PM *Adjourn for the day*

Friday October 7, 2016
Keck 208

8:00 AM Meeting Room Opens (*Breakfast available in the room*)

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8:30 AM **CSSP Status Updates – Reconstituting the Committee** **SSB Staff**
9:00 AM **Possible SSB space weather study – needs and parameters** **Committee**
10:00 AM *Break*
10:30 AM **Follow Up Discussion with NASA Heliophysics** **Committee and Guests**
11:15 AM **Upcoming midterm decadal review** **Committee and Guests**
12:00 PM *Meeting Adjourns; Lunch tickets will be provided*

WEBEX INSTRUCTIONS

To join the WebEx online meeting from your computer's browser

Click on the meeting link in the agenda above for a direct connection to the WebEx meeting and an audio connection (best quality option). You will need to enter the WebEx Meeting Password (also in the agenda above).

The WebEx service will ask you for a phone number at which to call you and connect you to the meeting's audio. You do not need to connect using the telecon number below if you use the WebEx service.

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Call-in toll-free number: 1-866-668-0721 (within the US only)

Telecon Conference Code: 410 356 8429

There is no password for the telecon-only option

(If you require a toll free number to call in from outside the United States please contact the meeting organizer)

NOTES

Note to Observers: This meeting is being held to gather information to help the committee conduct its activities. The committee will examine the information and material obtained during open sessions 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. Therefore, observers who draw conclusions about the committee's work based on discussions during this meeting 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 committee's activities.

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

Working Dinner: District Chophouse, 509 7th St NW, Washington, DC

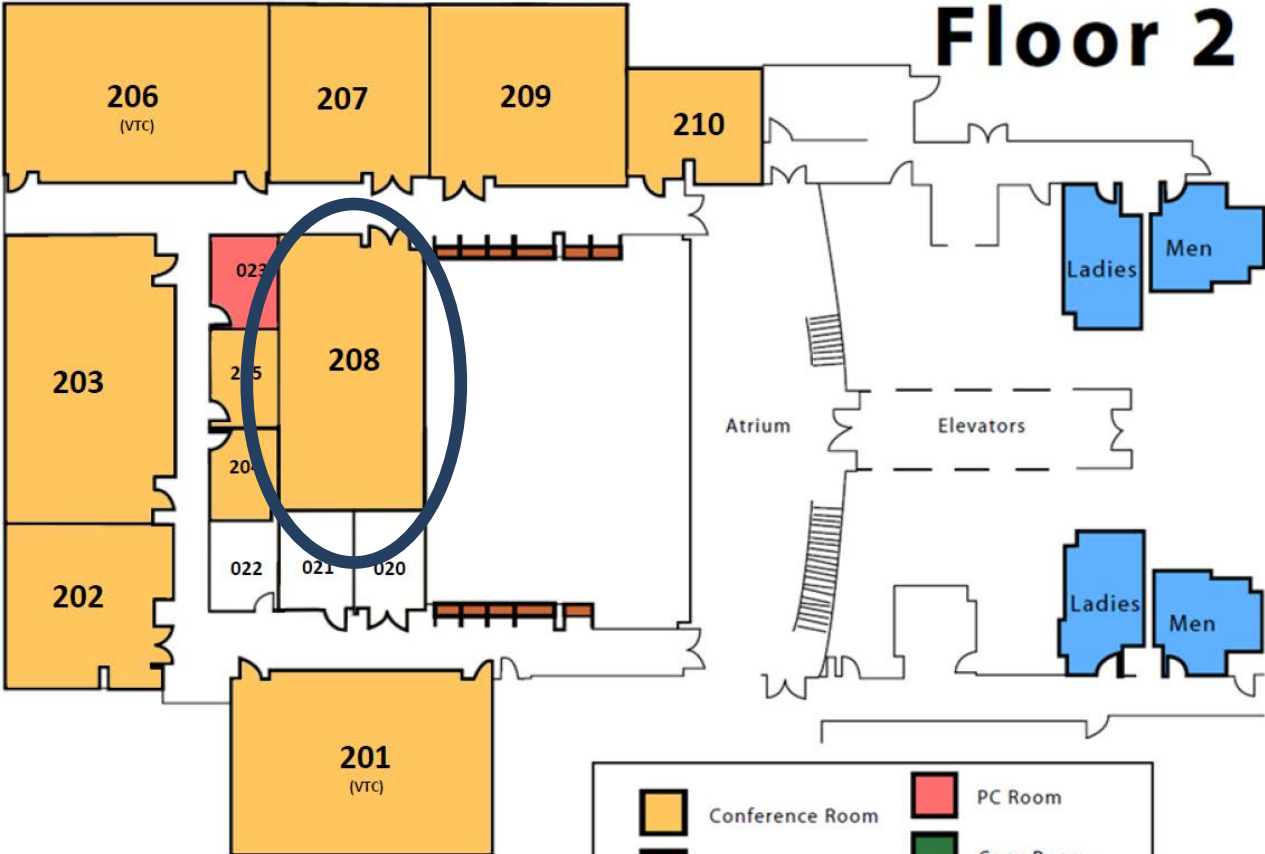
All meeting participants can attend. The Academies will only pay for members of the committee and guest speakers. Unfortunately, the Academies cannot pay for civil servants. The cost of the dinner is \$50.00. Checks, payable to the National Academy of Sciences, are preferred.





Keck Center: Is located at 500 Fifth St. NW, in Washington's Penn Quarter district, adjacent to Judiciary Square and the Verizon Center. The closest Metro stations (Information about the D.C. Metro can be found at <http://www.wmata.com/>) 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>.

Parking: There is plenty of free parking for meeting participants in the Keck Center's underground lot. Access is at the F St. end of Sixth St.

Save the Date! Meetings in 2017: The committee will hold its next meeting on Tuesday-Thursday, March 28-30, 2017 at the National Academy of Sciences, 2101 Constitution Ave. NW, Washington, D.C. 20418. The date of the autumn 2017 meeting is TBD.

Floor 2



	Conference Room		PC Room
	Phone Booths		Copy Room
			Restrooms