

SPACE SCIENCE WEEK

The National
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SPRING 2019 MEETING OF THE COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE

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 ASTROBIOLOGY AND PLANETARY SCIENCE (CAPS) – Lecture Room

7:30 AM *Registration Opens and Working Breakfast is Available in the Great Hall*

OPEN SESSION

Zoom Remote Access Information – Day 1 Open

Link: <https://nasem.zoom.us/j/424102163>

Phone: (646) 558-8656 or (669) 900-6833

Meeting ID: 424102163

8:30 AM **Welcome and Member Introductions**

**Chris House & Bill McKinnon,
CAPS Co-Chairs**

8:40 AM **Planetary Science Division Update**

**Lori Glaze
NASA HQ**

9:45 AM **OSIRIS-REx Mission Update**

**Dante Lauretta, *via Zoom*
The University of Arizona**

10:45 AM *Break*

11:00 AM **InSight Mission Update**

**Bruce Banerdt
JPL**

12:00 PM *Working Lunch Available in the Great Hall*

Tuesday March 26, 2019

JOINT PLENARY SESSION

Zoom Remote Access Information – Plenary

Link: <https://nasem.zoom.us/j/9990000101>

Phone: (646) 558-8656 or (669) 900-6833

Meeting ID: 999 000 0101

**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**
Presentation 25 min, Q&A 30 min

Thomas Zurbuchen, NASA-SMD

Zoom information is provided at the end of this agenda.

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

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

Wednesday, March 27, 2019

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE (CAPS) – Lecture Room

7:30 AM	<i>Registration opens and breakfast is available in the Great Hall</i>	
	OPEN SESSION	
	<i>Zoom Remote Access Information – CAPS Day 2 Open</i> <i>Link: https://nasem.zoom.us/j/322687155</i>	<i>Phone: (646) 558-8656 or (669) 900-6833</i> <i>Meeting ID: 322687155</i>
8:30 AM	Astrobiology Program Update	Mary Voytek NASA HQ
9:30 AM	Discussion on Astrobiology Program Continues <i>Break Available Outside of the Meeting Room</i>	Committee, Mary Voytek, & Guests
10:00 AM	Network for Life Detection (NfoLD)	Sarah Stewart Johnson Georgetown University
10:30 AM	The Exploration of Ultima Thule and the Kuiper Belt by New Horizons	Alan Stern, via Zoom Southwest Research Institute
11:30 AM	Mars2020 Mission Update	Ken Farley, via Zoom California Institute of Technology
12:15 PM	<i>Please return to the Lecture Room with lunch, available in the Great Hall – talks resume at 12:45 PM</i>	
12:45 PM	Europa Clipper Mission Update	Bob Pappalardo & Barry Goldstein JPL

2:30 PM *Break; Committee is joined by CSSP*

2:45 PM **Interstellar Probe: A mission at the intersection of Heliophysics,
Planetary Science, and Astrophysics** **Michael Paul
JHU APL**

3:30 PM **Briefing of the PSD Lunar Program Assessment Short Reports** **Chris House & Bill McKinnon
CAPS Co-Chairs**

THE COMMITTEE WILL GO INTO CLOSED SESSION FOLLOWING THE BRIEFING

**PUBLIC LECTURE
Kavli Auditorium**

7:00 PM ***Sea Level Rise from Melting Ice Sheets
and What We Should Do About it*** **Dr. Eric Rignot
University of California Irvine and JPL**
Webcast link: <https://livestream.com/NASEM/SeaLevelRise>

Thursday March 28, 2019

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE (CAPS) – Lecture Room

THE COMMITTEE IS IN CLOSED SESSION ALL DAY

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 –23rd and Virginia Avenue NW.
- Colonial Parking – 20th Street, NW, between E and F Streets.

Space Science Week Website: 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
TUESDAY, March 26			
CAPS SSW Day 1 Open	8:30am – 12pm	424 102 163	https://nasem.zoom.us/j/424102163
SSW Plenary Session	1pm – 6pm	999 000 0101	https://nasem.zoom.us/j/9990000101
WENESDAY, March 27			
CAPS SSW Day 2 Open	8:30am – 4:15pm	322 687 155	https://nasem.zoom.us/j/322687155
PUBLIC LECTURE WEBCAST	7:00 pm	webcast only:	https://livestream.com/NASEM/SeaLevelRise