

# SPACE SCIENCE WEEK

The National  
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ENGINEERING  
MEDICINE



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SPACE SCIENCE WEEK  
SPRING 2018 MEETING OF THE COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE  
March 27-29, 2018  
NAS Building—2101 Constitution Ave NW—Washington D.C

Tuesday March 27, 2018

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE – Lecture Room

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

OPEN SESSION

8:30 AM **Welcome** Christopher House and William McKinnon  
CAPS Co-Chairs

8:35 AM **Planetary Science Division Status Report** James Green  
NASA Headquarters

9:35 AM **Astrobiology Program Update** Mary Voytek  
NASA Headquarters

10:00 AM *Break, food available outside meeting room*

10:15 AM **NSF Planetary Astronomy Program** Faith Vilas  
NSF

11:15 AM **Large Synoptic Survey Telescope** Nigel Sharp  
NSF

12:00 PM **General Discussion; lunch available in the Great Hall**

PLENARY SESSION – Kavli Auditorium

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**

- 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, food available in the Great Hall*

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

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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** **Fiona Harrison, SSB Chair**

*Public Meeting Adjourns*

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**Wednesday March 28, 2018**

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**COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE – Lecture Room**

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

**OPEN SESSION**

8:30 AM **Science enabled by lunar exploration** **Carle Pieters  
Brown University**

9:15 AM **VEXAG** **Martha Gilmore  
Wesleyan University**

10:00 AM *Break, food available outside meeting room*

10:15 AM **Planetary Protection I** **Lisa Pratt  
NASA HQ**

10:25 AM **Planetary Protection II** **Athena Coustenis  
Incoming Chair of COSPAR Panel on Planetary Protection**

10:30 AM **Planetary Protection III** **Clive Neal  
University of Notre Dame**

11:00 AM **Europa Clipper and Europa Lander Updates** **Robert Pappalardo, Barry Goldstein, Kevin Hand  
Jet Propulsion Laboratory (via Zoom)**

12:00 PM **General Discussion; lunch available in the Great Hall**

1:00 PM **Advancing science of the moon – Specific action team (ASM-SAT) update** **Brett Denevi  
JHU Applied Physics Lab**

2:00 PM      **Origins of Life: Perspective I**      Karyn Rogers (tbc)  
RPI

2:20 PM      **Origins of Life: Perspective II**      George Cody  
CWI

2:40 PM      **Origins of Life: Perspective III**      Nita Sahai  
University of Akron

3:00 PM      **General discussion of origins of life**

3:30 PM      *CAPS public meeting adjourns; break to Closed Session*

3:30-5:30 PM      **CLOSED SESSION**

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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 ASTROBIOLOGY AND PLANETARY SCIENCE—Lecture Room**

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The committee will be meeting in closed session.

## 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/8066741884>

*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>			
Space Science Week 2018 Plenary	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>			
CAPS SSW Day 2 Open	8:30 AM	824 198 321	<a href="https://nasem.zoom.us/j/824198321">https://nasem.zoom.us/j/824198321</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 chose “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).

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

- PMI (Columbia Plaza) – 2400 Virginia Avenue, NW.
- Colonial Parking – 515 20<sup>th</sup> Street, NW. Phone (202) 296-5700.
- GW Elliot School Garage is located near the Department of Interior at 1957 E Street NW.

**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.

### RECORDING OF THE MEETING

This meeting will be recorded by the NRC. Please be aware that by attending the meeting, you consent to your voice being recorded for use by the NRC for the purpose of note-taking. This recording will not be publicly released, shared outside of the NRC, or used for other public purposes.

## 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 NRC’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.