

SPACE SCIENCE WEEK

The National Academies of SCIENCES
ENGINEERING
MEDICINE



SPACE SCIENCE WEEK
SPRING 2017 MEETING OF THE COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE
March 28-30, 2017
NAS Building—2101 Constitution Ave NW—Washington D.C.

Updated March 24, 2017

Tuesday March 28, 2017

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

MORNING PARALLEL BREAK-OUT SESSION
COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE—Lecture Room

OPEN SESSION

9:15 AM	Welcome	Christopher House and William McKinnon CAPS Co-Chairs
9:15 AM	Mars Exploration Program Update	James Watzin/Michael Meyer NASA Headquarters
9:45 AM	<i>Break food available outside meeting room</i>	
10:00 AM	Astrobiology Program Update	Mary Voytek NASA Headquarters
10:30 AM	Planetary Science Division Status Report	James Green NASA Headquarters
11:30 AM	General Discussion: Preparing for the Next Decadal	Committee and Guests
12:00 PM	<i>Lunch available in the Great Hall</i>	

PLENARY SESSION
Auditorium – NAS Building

Moderator: Michael Moloney, SSB Director

1:00 PM	Welcome and Overview of Current Activities	Sarah Gibson, SSB Executive Committee Jim Lancaster, BPA Director
1:15 PM	NASA-SMD Budget, Program, and Priorities <i>Presentation 20 mins / Q&A 25 mins</i>	Thomas Zurbuchen, NASA

Focus Session on The Discovery Frontiers of Data Analytics in Space Science

Moderator: Sarah Gibson, SSB member

2:00 PM Short 15-minute Talks Across Space Science Disciplines
Lea Shanley, University of North Carolina
Barbara J. Thompson, NASA GSFC

2:45 PM Moderated Discussion include Q&A with all
Standing and Discipline Committee members in attendance

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

Focus Session on International Programs

Moderator: Michael Moloney, SSB Director

4:00 PM Russian Space Science Program Lev Zelenyi, Russian Academy of Sciences
Chinese Space Science Program Chi Wang, Chinese Academy of Sciences
Europe's Space Science Program Athena Coustenis, European Space Sciences Committee

5:45 PM Closing Comments

6:00 PM *Public Meeting Adjourns*

Wednesday March 29, 2017

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE—Lecture Room

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

OPEN SESSION

8:30 AM Planetary Science Vision 2050 Workshop Report
Stephen Mackwell
Universities Space Research Association

9:15 AM Ice Giant Mission Science Definition Team Report
Amy Simon¹
NASA Goddard Space Flight Center

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

Joint Session with Committee on Astronomy and Astrophysics (Lecture Room)

10:15 AM Workshop Report: Searching for Life across Space and Time
James Kasting
Pennsylvania State University

10:45 AM Proposed Follow-on Study on Search for Life in the Universe
Michael Moloney
and Mary Voytek²

11:00 AM Proposed NASA Exoplanet Study
Douglas M. Hudgins
NASA Headquarters

11:15 AM General Discussion: Astrobiology, Exoplanets
and the Next Decadal Surveys
Members and Guests

End of Joint Session

¹ Conference Call

² Conference Call

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

1:00 PM **Europa Clipper Mission Status Report** **Robert Pappalardo
and Barry Goldstein
Jet Propulsion Laboratory**

1:30 PM **Europa Lander Status Report** **Kevin Hand and Barry Goldstein
Jet Propulsion Laboratory**

2:30 PM **General Discussion** **Committee and Guests**

3:00 PM *Break food available outside room*

Closed Session 3:15-5:30

OPEN SESSION

7:00 PM **Plenary Public Talk—*The Search for Life in Oceans Beyond Earth*—Kevin Hand**

Thursday March 30, 2017

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE—Lecture Room

The committee will be meeting in closed session.

WEBEX CONNECTION DETAILS

To join the online meeting from a computer

Find the session in the table below and click on the link for the meeting you want to join; enter your email address and the meeting password if requested. 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. *Please do not use the VoIP option as it causes distracting echoes in our sound system.*

Teleconference information if not using WebEx (all meetings)

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

Conference Code: see the table below (this is for the telecon audio connection only)

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)

Connecting using a mobile app (phone or tablet)

If you are using a mobile device app to join please use the meeting numbers listed in the table below (this is not a phone number, it is the Webex meeting identifier).

Session	Start Time	Password	Conference Code	Meeting # (for mobile Apps)
CAPS Tue Open	9:15 AM	ssw-caps	678 483 8937	744 437 616
Web link: https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m257038a08e22499b6eea0c1fc757dbae				
Plenary Tue Open	1:00 PM	SSWPS2017	255 641 6641	743 271 566
Web link: https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m2ce7cab442bef354610296af4b6fb9a9				
CAPS Wed Open AM	8:30 AM	caps-caa	678 483 8937	744 969 638
Web link: https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m6fe25531e5d353680336434b5371d4f5				
CAPS-CAA Joint Session	10:15 AM	caps-caa	678 483 8937	744 969 638
Web link: https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m6fe25531e5d353680336434b5371d4f5				
CAPS Wed Open PM	1:00 PM	ssw-caps	678 483 8937	742 102 647
Web link: https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m5b44a9e1bd1dc90ea635fcf2b3176c6a				

GENERAL NOTES

Pre-registration: All participants, including committee members, invited speakers and other attendees, are strongly encouraged to preregister at <http://www.surveygizmo.com/s3/3260581/SSW2017>.

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 20th 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

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.