

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES
SPACE STUDIES BOARD

Committee on Astrobiology and Planetary Science

AGENDA
September 14-15, 2016

Beckman Center
100 Academy Drive

Huntington Room
Irvine, California

Tuesday, September 13

8:00 p.m. Welcome Reception at the Fairmont Hotel (Garden Gazebo)

Wednesday, September 14

OPEN SESSION

7:00 a.m. Meeting Room Opens

(Breakfast available in the Beckman Center Refectory)

7:30 a.m. Gather in hotel lobby for carpool to Beckman

8:30 a.m. Welcome and Agenda Review Phil Christensen and Christopher House

8:45 a.m. NASA PSD and Mars Program Update Michael Meyer, NASA

9:45 a.m. *Break*

10:00 a.m. Sample Science Facilities Kevin McKeegan, UCLA

11:00 a.m. Reports from recent workshops: William McKinnon, Wash U.
• Enceladus and the Icy Moons of Saturn Conference
• Ocean Worlds Exploration

11:45 a.m. General Discussion

12:00 p.m. *Lunch available in the Beckman Center Refectory,
committee discussion will continue*

1:00 p.m. Chemistry of Titan Martin Rahm, Cornell

2:00 p.m. Extended Missions Report Vicky Hamilton, SwRI

2:45 p.m. *Break*

3:00 p.m – 6:00 p.m. **EXECUTIVE SESSION**

OPEN SESSION

6:00 p.m. Working Dinner at Bayside Restaurant 900 Bayside Dr, Newport Beach, CA 92660
(949) 721-1222

8:00 p.m. *Adjourn for the Day*

Thursday, September 15

OPEN SESSION

7:00 a.m. Meeting Room Opens

(Breakfast available in the Beckman Center Refectory)

7:45 a.m. Gather in hotel lobby for carpool to Beckman

8:45 a.m. Europa Mission Update Bob Pappalardo and Barry Goldstein, JPL
Alison Murray, Desert Research Institute

9:45 a.m. *Break*

10:00 a.m. Mars Science Laboratory Ashwin Vasavada, JPL

11:00 a.m. Cassini's Science: Past and Future Linda Spilker, JPL

12:00 p.m. *Lunch available in the Beckman Center Refectory,
committee discussion will continue*

1:00 p.m. NASA Astrobiology Program Update Mary Voytek, NASA (video conference)

2:00 p.m. Current Status to Reestablish a Reliable Supply of Pu-238 Robert Wham,
Oak Ridge National Laboratory

2:45 p.m. *Break*

3:00 p.m. Rise of atmospheric O₂ during the Mid-Proterozoic Tim Lyons, UC Riverside

4:00 p.m – 5:00 p.m. **EXECUTIVE SESSION**

5:00 p.m. *Adjourn Meeting*

5:15 p.m. Return via carpool from Beckman to the Fairmont

WEBEX DETAILS

Wednesday, September 14, 2016

Topic: CAPS Sept. 14

Open Time: 7:00 AM PDT

1. Go to <https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m14b28ab78a7ee2e44dc6a06f4186971f> for a direct connection to the Webex meeting.
2. Enter your phone number to have WebEx call you.

If prompted, enter meeting number and password.

Meeting Number: 743 490 764

Meeting Password: CAPS2016

If you are not connecting via WebEx but connecting by phone:

1. Call-in toll-free number: 1-866-668-0721 (within the US only)
2. Telecon Conference Code: 269 022 3803 (this is for the telecon audio connection only)

If you require a toll free number to call in from outside the United States, please contact Dionna Williams (DWilliams@nas.edu).

Add this meeting to your calendar (Cannot add from mobile devices):

<https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m4e6233b85feeba05eb53f2c756e47ec2>

Thursday, September 15, 2016

Topic: CAPS Sept. 15

Open Time: 7:00 AM PDT

1. Go to <https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m73cf557472c58b55b50759fbc2b072b8> for a direct connection to the Webex meeting.
2. Enter your phone number to have WebEx call you.

If prompted, enter meeting number and password.

Meeting Number: 741 335 987

Meeting Password: CAPS2016

If you are not connecting via WebEx but connecting by phone:

1. Call-in toll-free number: 1-866-668-0721 (within the US only)
2. Telecon Conference Code: **218 737 5164** (this is for the telecon audio connection only)

If you require a toll free number to call in from outside the United States, please contact Dionna Williams (DWilliams@nas.edu).

Add this meeting to your calendar (Cannot add from mobile devices):

<https://nationalacademies.webex.com/nationalacademies/j.php?MTID=mab716a3b307818f6284c494d77d52662>

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.

Beckman Center: Is located on the campus of the University of California, Irvine, and is approximately 3 miles from Orange County/John Wayne Airport. See the following website for more information, including directions: <http://www7.nationalacademies.org/beckman/>.

Hotel: A block of rooms has been reserved for the committee's use at the Fairmont Newport Beach Hotel, 4500 MacArthur Blvd, Newport Beach, CA 92660; phone: (949) 476- 2001. Additional information, including directions can be found at the hotel's website: <http://www.fairmont.com/newport-beach/>. This hotel is located approximately 2 miles from both the John Wayne/Orange County Airport and the Beckman Center. The hotel is on Macarthur Blvd just south of the 405.

Working Dinner: The committee will hold a working dinner at 900 Bayside Drive, Newport Beach, CA 92660; phone: (949) 721-1222. More information can be found at the restaurant's website: <http://www.baysiderestaurant.com/>. All meeting participants can attend. The Academies can pay for members of the committee and guest speakers. Unfortunately, the Academies cannot pay for federal employees. Cost of the dinner is \$50.00. Checks payable to the National Academy of Sciences preferred.

Breakfast and Lunch: Available free of charge to all committee members and guests in the refectory at the Beckman Center. Those meeting participants who are ethically bound to pay for these meals can do so if they wish: Breakfast \$15.00, Lunch \$25.00. Checks payable to the National Academy of Sciences preferred.

Parking: There is plenty of free parking at the Beckman Center.

Airports: Orange County/John Wayne Airport (SNA) is about 2 miles from both the Beckman Center. Los Angeles International Airport (LAX) is about 40 miles from the meeting site. Long Beach Airport (LGB) is about 26 miles distant.

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 September 13-14, 2017.