

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES  
SPACE STUDIES BOARD

**Committee on Astrobiology and Planetary Science**

**NEAR-FINAL AGENDA  
September 12 - 14, 2017**

Beckman Center  
100 Academy Drive

Huntington Room  
Irvine, California

**Tuesday, September 12**

**OPEN SESSION**

- 7:30 a.m. Carpool from the Island Hotel *Meet in the hotel lobby*
- 7:30 a.m. Meeting Room Opens *Breakfast available in the Beckman Center Refectory*
- 8:30 a.m. Welcome and Agenda Review William McKinnon/Christopher House  
Washington University/Penn State University
- 8:45 a.m. Overview of ESA's Current Planetary Science Missions Athena Coustenis  
CNRC/Paris Observatory
- 9:45 a.m. Break
- 10:00 a.m. Space Telescopes for Planetary Science John Clarke  
Boston University
- 11:00 a.m. What the DAWN Mission has Learned at Ceres Julie Castillo-Rogez  
Jet Propulsion Laboratory
- 12:00 p.m. General Discussion *Lunch available in the Beckman Center Refectory*
- 1:15 p.m. Europa Clipper Update Robert Pappalardo (WebEx) and David Senske  
Jet Propulsion Laboratory
- 2:00 p.m. Options to Explore Ocean Worlds Jonathan Lunine  
Cornell University

3:00 p.m.	Planetary Science Division Update	James Green NASA Headquarters
4:00 p.m.	Break	
4:15 p.m.	Astrobiology Program Update	Mary Voytek or Michael New (WebEx) NASA Headquarters
5:15 p.m.	NASA Astrobiology Institute Update	Penny Boston (WebEx) NASA Astrobiology Institute
6:00 p.m.	Meeting Adjourns	
6:30 p.m.	Working Dinner	<i>Cucina Enoteca</i> 951 Newport Center Drive Newport Beach, CA 92660 (949) 706-1416
8:30 p.m.	Adjourn for the Day	

**Wednesday, September 13**

**OPEN SESSION**

7:30 a.m.	Carpool from the Island Hotel	<i>Meet in the hotel lobby</i>
7:30 a.m.	Meeting Room Opens	<i>Breakfast available in the Beckman Center Refectory</i>
8:30 a.m.	General Discussion	Committee
8:45 a.m.	Evidence for the Earliest Life on Earth	Abigail Allwood Jet Propulsion Laboratory
9:45 a.m.	Break	
10:00 a.m.	Sterol Biosynthesis and the Rise of Oxygen	David Gold California Institute of Technology
11:00 a.m.	Mars 2020 Update	Kenneth Farley California Institute of Technology
12:00 p.m.	General Discussion	<i>Lunch available in the Beckman Center Refectory</i>
1:00 p.m.	Pluto Science Update and the Status of Planning for MU69 Flyby	Alan Stern Southwest Research Institute

- 2:00 p.m. Update on Permian-Triassic Extinction Landscape David Bottjer  
University of Southern California
- 3:00 p.m. Break; Adjourn to Closed Session

**Thursday, September 14**

**OPEN SESSION**

- 7:30 a.m. Carpool from the Island Hotel *Meet in the hotel lobby*
- 7:30 a.m. Meeting Room Opens *Breakfast available in the Beckman Center Refectory*
- 8:30 a.m. Value of Participating Scientist Programs Louise Prockter  
Lunar and Planetary Institute
- 9:30 a.m. Break; Adjourn to Closed Session

# NOTES

**Car-pool:** We plan to car pool to/from Beckman Center/Island Hotel. If you need a ride be in the hotel lobby at 7:30 am.

**Beckman Dress-Code:** Business casual.

**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 may be webcast and presentation materials given to the committee may be posted on a publicly accessible website. Please edit your presentations accordingly.

**Note to Observers:** This meeting is being held to gather information to help the committee conduct its study. 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 at this time and no recommendations will be made. In fact, the committee will deliberate thoroughly before writing its draft report. Moreover, once the draft report is written, it must go through a rigorous review by experts who are anonymous to the committee, and the committee then must respond to this review with appropriate revisions that adequately satisfy the Academy's Report Review committee and the chair of the NRC before it is considered an NRC report. Therefore, observers who draw conclusions about the committee's work based on today'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 regarding findings or recommendations in the final report are therefore also premature.

**Hotel:** Blocks of rooms for the use of committee members and guests has been reserved at the Island Hotel Newport Beach. The hotel is located at 690 Newport Center, Newport Beach, CA 92660. The telephone number is 949-759-0808. Additional information can be found at:  
<http://www.islandhotel.com/>

**Working Dinner:** There will be a working dinner at Cucina Enoteca, 951 Newport Center Drive, Newport Beach, CA 92660. Cucina Enoteca is located in the Fashion Island Center across the street from the Island Hotel. The telephone number for the restaurant is 949-706-1416. More information can be found at the following website: <https://www.urbankitchengroup.com/cucina-enoteca-newport-beach/>. All meeting participants can attend. The National Academies will only pay for the members of the committee and invited speakers. Unfortunately, the National Academies cannot pay for federal govt. employees or members of the public. If you are a fed. employee or public attendee, the cost of the dinner is \$50.00 per person; checks, payable to the National Academy of Sciences, are preferred.

**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.