

# THE NATIONAL ACADEMIES

*Advisers to the Nation on Science, Engineering, and Medicine*

Space Studies Board

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## COMMITTEE ON THE ORIGIN AND EVOLUTION OF LIFE SPACE STUDIES BOARD—BOARD ON LIFE SCIENCES NATIONAL RESEARCH COUNCIL

### FINAL AGENDA

7-8 June, 2011

Room 208  
314 Quissett Avenue

J. Erik Jonsson Center  
Woods Hole, Massachusetts

### Tuesday, 7 June

#### Open Session

- 7:30 a.m. Meeting Room Opens  
*(Breakfast available in the dining room)*
- 9:00 a.m. Co-Chairs' Welcome and Agenda Review Bob Pappalardo and Greg Ferry
- 9:15 a.m. NASA Astrobiology Program Update Mary Voytek  
NASA Headquarters
- 10:00 a.m. Break
- 10:15 a.m. The SSB and Astrobiology: 1958-2011 and Beyond David H. Smith
- 11:00 a.m. Reorganizing the SSB's Standing Committees Michael Moloney
- 12:00 p.m. Committee Discussion Committee and Guests  
*(Lunch will be served in the dining room, committee discussion will continue)*

#### Open Session

- 1:00 p.m. NASA Astrobiology Institute Update Carl Pilcher<sup>1</sup>  
NASA Astrobiology Institute

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<sup>1</sup> Teleconference/Webcast

2:00 p.m.	Astrobiology Aspects of OSIRIS-Rex	Dante Lauretta
3:00 p.m.	Break	
3:15 p.m.	Stardust-NExT at Comet Temple 1	Joseph Veverka <sup>2</sup> Cornell University
4:15 p.m.	General Discussion of the CAPS Concept	Committee and Guests
5:15 p.m.	<i>Activities suspended to reconvene for working dinner</i>	
5:30 p.m.	<i>Working dinner/clambake to discuss presentations</i>	Study Center Veranda

### **Wednesday, 8 June**

#### **Open Session**

7:30 a.m.	Meeting Room Opens <i>(Breakfast available in the dining room)</i>	
9:00 a.m.	Astrobiology and Planetary Science: The Basis for Planetary Protection	Catharine Conley <sup>3</sup> NASA Headquarters
10:00 a.m.	Break	
10:15 a.m.	Emerging Concepts of Mars Habitability from the Orbital Perspective	Jack Mustard Brown University
11:15 a.m.	Discussion of the Astrophysical Aspects of Astrobiology	Jonathan Lunine, <sup>4 5</sup> University of Rome Tor Vergata, J. Craig Wheeler, <sup>6</sup> University of Texas, Austin Committee and Guests
12:15 p.m.	Committee Discussion <i>(Lunch will be served in the dining room, committee discussion will continue)</i>	Committee and Guests

#### **Open Session**

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<sup>2</sup> Chair, COMPLEX, 2006-2008

<sup>3</sup> Teleconference/Webcast

<sup>4</sup> Co Chair, COEL, 2000-2002

<sup>5</sup> Teleconference/Webcast

<sup>6</sup> Co Chair, COEL, 2002-2005

1:15 p.m.	Habitability of Venus: Astrobiology Investigations from SAGE	Larry Esposito <sup>7</sup> University of Colorado
2:15 p.m.	Major Issues in Astrobiology and Planetary Science	Committee and Guests
3:15 p.m.	Break	
3:30 p.m.	Undercover Among Creationists	Antonio Lazcano
4:30 p.m.	Final Words	Greg Ferry and Bob Pappalardo
5:00 p.m.	Adjourn	

## 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.

**J. Erik Jonsson Center:** Is located at 314 Quissett Avenue, Woods Hole, Massachusetts 02543 (508-548-3760). See the following website for more information:  
<http://www7.nationalacademies.org/woodshole/>

**Directions to Woods Hole and Jonsson Center:** Are available at  
[http://www7.nationalacademies.org/woodshole/Transport\\_Directions.html](http://www7.nationalacademies.org/woodshole/Transport_Directions.html). Also try Google Maps, etc.

**Hotel:** COEL has reserved blocks of rooms at the Coonamessett Inn. This is located at 311 Gifford Street, Falmouth, Massachusetts 02540 (508-548-2300). Additional information, including directions can be found at the following website:  
<http://www.capecodrestaurants.org/coonamessett/index.shtml>.

Please note that accommodation in the Woods Hole area is limited and not up to the standard of the hotels the NRC uses in, for example, Washington, D.C., and Irvine, California.

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<sup>7</sup> Chair, COMPLEX, 1989-1992

Cape Cod has its own particular charms, but luxury hotel accommodation is not one of them. You are getting the best that is available in the vicinity of Woods Hole. Please direct any complaints concerning your room to the hotel management.

**Working Dinner:** The committee will host the traditional Woods Hole “clambake” at the Jonsson Center on the 7<sup>th</sup>. All meeting participants are invited to attend. The NRC can pay for committee members and guest speakers. Unfortunately, the NRC cannot pay for civil servants. Cost of the dinner is \$50.00 (cheques payable to the “National Academy of Sciences” preferred). A limited amount of wine will be available. BYOB if you want more

**Parking:** There is plenty of free parking at the Jonsson Center. There is next-to-no public parking in Woods Hole village. Car pooling is encouraged.

**Airports:** Major airports serving the Cape Cod area are: Logan Airport (BOS) in Boston, Massachusetts; T.F. Green Airport (PVD) in Providence, Rhode Island; and Barnstable Municipal Airport (HYA) in Hyannis, Massachusetts. Logan Airport is 75-80 miles from the Jonsson Center. Please allow a minimum of 120 minutes for the drive and more in the rush hour. If you have never driven in the Boston area consider taking the Bonanza Bus from Logan Airport to Falmouth or Woods Hole. T.F. Green Airport is 80 miles from the Jonsson Center. Please allow a minimum of 90 minutes for the drive. Barnstable Airport is only 25 miles from the Jonsson Center, but its use is not recommended. Please allow a minimum of 60 minutes for the drive. Route 28 between Hyannis and Falmouth is a minor road with infuriatingly frequently traffic jams, unexpected holdups and other delays.

**Webcast Access:** Webcast at <http://connect.arc.nasa.gov/coel/>. To receive audio you must call 866-528-2256 (domestic) or +1-216-706-7052 (international). Access code 7078222. International toll-free call-in numbers are available at <https://www.teleconference.att.com/servlet/glbAccess?process=1&accessCode=7078222&accessNumber=8665282256>