

HUMANS ORBITING MARS

THE PLANETARY SOCIETY
March 31–April 1, 2015
Washington, D.C. 2015



A Critical Step in an Executable, Affordable, and Sustainable Mars Exploration Program

Sponsored by The Planetary Society
Hosted by the Space Policy Institute, George Washington University

Chair: Scott Hubbard, Stanford University
Co-Chair: John Logsdon, George Washington University

This workshop will produce a broad-based, expert synthesis of the technical, programmatic and policy issues of creating a sustainable program leading to eventual human journeys to the surface of Mars. The workshop will focus on moving ahead now with a particular focus on an orbital/Phobos mission in 2033 as a critical and attractive step in such a program, one that could serve to unify the scientific and human exploration communities.

Day I

Getting on with it! The Urgent Need for an Affordable Pathway to Mars

Time	Title	Speaker
9:00am – 9:15	Welcome and Opening Remarks	Bill Nye, <i>The Planetary Society</i>
9:15 – 10:00	Building Consensus on a Long Term, Cost Constrained, Executable Humans to Mars Program	Scott Hubbard, <i>Stanford University</i>
10:00 – 10:30	Why the Kennedy Moment Won't Come Again	John Logsdon, <i>George Washington University</i>
10:30 – 11:00	Discarding Historical Baggage: The 90-Day Study Myth and Other Misconceptions	Joe Hamaker, <i>Galorath Inc.</i>
11:00 – 11:15	Break	
11:15 – 11:45	Science Community Support for Humans in Mars Orbit and at Phobos	Steve Squyres, <i>Cornell University</i>
11:45 – 12:00pm	Discussion	Scott Hubbard
12:00 – 12:45	Working Lunch	All

Getting Humans to Mars Starting Now

Time	Title	Speaker
12:45pm – 2:15	Humans to Mars: Thoughts Toward an Executable Program – Fitting Together Puzzle Pieces and Building Blocks	Firouz Naderi, Hoppy Price, John Baker, <i>Jet Propulsion Laboratory</i> ; Terry Radcliffe & Russel Persinger, <i>The Aerospace Corporation</i>
2:15 – 3:00	The Affording Mars Community Workshops: Consensus Architecture and Next Steps	Chris Carberry, <i>Explore Mars, Inc.</i> ; Harley Thronson, <i>NASA Goddard Space Flight Center & American Astronautical Society</i>
3:00 – 3:15	Discussion	
3:15 – 3:30	Break	

The Shape of a Unifying Program

Time	Title	Speaker/Chair
3:30pm – 4:30	Panel Discussion: How an Orbital/Phobos Mission Can Unite The Science and Human Exploration Communities	Chair: Jim Bell, Arizona State University with Ken Bowersox; Rick Davis, NASA Headquarters; Laurie Leshin, Worcester Polytechnic Institute; and Scott Murchie, Johns Hopkins University Applied Physics Laboratory.
4:30 – 5:30	Panel Discussion: Steps towards the Martian Moons between 2021 – 2033	Chair: Josh Hopkins, Lockheed Martin with Dan Britt, University of Central Florida; Michele Gates, NASA HQ; and Steve Stitch, NASA Johnson Space Center.
5:30	Adjourn	
5:30 – 6:30	Reception	

Day II

Selling the Program: Building Advocacy

Time	Title	Speaker/Chair
9:00am – 10:00	Panel: Can an Early Orbital/Phobos Mission be Exciting to the Public?	Chair: Casey Dreier, The Planetary Society with Roger Launius, National Air and Space Museum; Alan Ladwig, Space Development Ventures; Bill Nye, The Planetary Society; and Lauren Worley, NASA HQ.
10:00 – 11:00	Panel: The <i>New Space</i> Generation and Mars	Chair: John Logsdon with Sirisha Bandla, Commercial Spaceflight Federation; Anne Caraccio, HI-SEAS Mission 2 Crew Member; Ashley Chandler Karp, Jet Propulsion Laboratory; and Julielynn Wong, 3D4MD.
11:00 – 11:20	A Space Community Assessment	Elliot Pulham, Space Foundation
11:20 – 12:30pm	Discussion, consensus, adjourn	Scott Hubbard