

Mars Exploration Program Analysis Group (MEPAG)

Welcome to MEPAG Virtual Meeting (VM) #3

Jeffrey R. Johnson, MEPAG Chair
September 13, 2018

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Introduction

Topics for today's virtual meeting (VM #3):

- 1) MEPAG Updates since VM #2
- 2) National Academies Planetary Protection Report
- 3) National Academies Mid-Term Decadal Survey Report

Agenda

MEPAG Virtual Meeting #3 (VM3): Thursday, September 13, 2018

Electronic meeting (JPL WebEx): 1:00 pm-3:15 pm EDT

Times shown are EDT/PDT

<u>EDT</u>	<u>PDT</u>	<u>Duration</u>	<u>Title/topic</u>	<u>Presenter</u>
13:00	10:00	0:15	Welcome/meeting agenda/MEPAG update	J. Johnson (MEPAG Chair, JHU/APL)
13:15	10:15	0:30	National Academies Planetary Protection Report	S. Hubbard (Stanford Univ.)
13:45	10:45	0:20	Question period	---
14:05	11:05	0:45	National Academies Mid-Term Decadal Survey Report	L. Prockter (LPI)
14:50	11:50	0:20	Question period	---
15:10	12:10	0:05	Wrap-up	J. Johnson
15:15	12:15		Adjourn	

VM Logistics:

- Please mute your phone
- Use chat box on WebEx; moderators will track questions
- Feedback/questions during and after meeting? → MEPAGmeetingqs@jpl.nasa.gov

MEPAG Activities since 6/25/18 meeting VM #2

- VM #2 meeting
 - Summary of meeting posted: <https://mepag.jpl.nasa.gov/meeting/2018-06/MEPAG%20VM2%20Summary.pdf>
- Goals Committee completed revision of polar science questions
 - D. Banfield (Goals Chair) and Goals Committee worked with polar science community and recommended changes to Goals Document
 - Received community inputs; now undergoing final evaluations by Executive Committee for release by Oct. 1
- COSPAR meeting:
 - MEPAG abstract/presentation on “Forward planning for Mars scientific exploration”
 - <https://www.cospar-assembly.org/user/download.php?id=24184&type=abstract§ion=congressbrowser>
 - Participated in panel on “International Coordination of Space Exploration Activities”
- MEPAG Committee memberships
 - Ongoing discussions regarding additional Executive Committee member
 - Goals committee rotations

MEPAG Activities since April meeting and June VM #2

- Ice and Climate Evolution Science Analysis Group (ICE-SAG)
 - Goal: Explore mission-based approaches to address the fundamental science questions related to the recent and ongoing evolution of Mars volatiles and climate.
 - Chairs to be selected and charter completed by Oct. 1; final report by February, 2019
 - The ICE-SAG would identify:
 - Compelling recent climate science objectives that could be addressed in the next decade (2023-2032), with traceability to any of the MEPAG Goals.
 - Measurements required to address these objectives and proof-of-concept techniques needed to make these measurements, and/or the technology investments needed to develop the required techniques to a sufficient level of maturity.
 - Mission approaches—including orbiters, landers, drillers, rovers, networks—that could address the compelling science objectives and make the required measurements.
 - Of the mission/payload concepts identified, which are candidates to be recommended to NASA for technical and costing study in preparation for consideration by the Planetary Decadal Survey for the decade 2023-2032?

Upcoming Mars Activities

- Late Mars Workshop (Oct 1-2 @Houston, TX)
- InSight landing (Nov 26 @Elysium Planitia, Mars)
- American Geophysical Union Meeting (Dec 10-14 @Washington DC)
 - MEPAG poster on “*Preparation for the Planetary Decadal Survey: The 2018 MEPAG Goals Document and plans for 2019 updates*”
- Mars Extant Life: What’s Next? (Jan 29-Feb 1, 2019 @Carlsbad, NM)
- 9th International Conference on Mars (July 22-26, 2019 @Pasadena, CA)

Next MEPAG Meeting: VM #4

- Virtual Meeting #4 (mid-February 2019)
- Potential agenda items
 - NASA HQ and MEP updates, including Congressional action and President's FY20 budget, as available
 - Preparations for 9th International Mars Conference
 - Decadal Survey updates and preparations for future missions
 - Consideration of new Mars Architecture planning Team (MAT?) to identify top priorities for non-MSR missions as input to the next Decadal Survey, including technologies needed
 - Reports:
 - M2020 and ExoMars Rover/Surface Platform (RSP) Landing Site Workshop reports
 - ICE-SAG report
 - Mars Extant Life Conference Report
 - Other reports

Next MEPAG Meetings

- Face-to-face Meeting #37 (spring 2019)
- Potential agenda items
 - NASA HQ and MEP updates
 - Updates from missions and international space agencies with Mars activity
 - MSR: M2020, Landing site
 - Decadal Survey updates and preparations for future missions
 - ICE-SAG updates
 - Mars Architecture Team reports
 - Forum?
 - 9th International Mars Conference preview
 - Human exploration/commercial space updates
 - Conference/team reports
 - New Findings

POTENTIAL Decadal Survey Preparation Timeline

Updated to VM3/Sept 13, 2018

