



Welcome to
MEPAG Meeting #35

Introduction (1 of 2)

- Rationale for virtual meeting: Background
 - At MEPAG #33 (Feb. 2017) we discussed ideas for more frequent, shorter, focused topical discussions held as webcasts to augment face-to-face meetings
 - (https://mepag.jpl.nasa.gov/meeting/2017-03/16.%20Proposal_Quarterly_2.pptx)
 - MEPAG #34 (July, 2017) 2-hour virtual meeting included discussions on:
 - 1) ongoing MEPAG activities
 - 2) Feedback on a draft presentations to be given at the July 13 Mid-Term Decadal Survey review committee meeting
 - Next Mars Orbiter (NEX/SAG)
 - Mars community concerns
 - 3) HQ and MEPAG perspectives on future Mars exploration architectures
 - 4) upcoming MEPAG activities

<https://mepag.jpl.nasa.gov/meetings.cfm?expand=m34>

Introduction (2 of 2)

- Rationale for today's virtual meeting:
 - 1) Small Satellites:
 - A new way of advancing Mars science through Low-cost, “opportunistic” mission concepts within the Mars system
 - Invitation to Planetary Science Deep Space SmallSat Studies (PSDS3) NASA-selectees provides opportunity to hear from teams as a means to educate the community...
 - ...while noting that there are additional examples of small satellite concepts under study by others in the community
 - *This is not a decisional nor endorsement meeting*
 - 2) News from NASA Headquarters regarding future Mars exploration architectures
 - Presentation by Dr. Zurbuchen at August meeting of Mid-Term Decadal Survey committee:
 - http://sites.nationalacademies.org/cs/groups/ssbsite/documents/webpage/ssb_181241.pdf
- Today's agenda includes:
 - MEPAG activities since MEPAG #34 meeting (7/2017)
 - NASA remarks on Mars architecture planning (J. Watzin)
 - Presentations on Mars system PSDS3 projects
 - Future MEPAG meetings/plans

Agenda

<u>Start</u>	<u>Duration</u>	<u>Title/topic</u>	<u>Presenter</u>
10:00	0:15	Past and ongoing Mars community/MEPAG activities, including those relevant to this topic	J. Johnson, MEPAG Chair
10:15	0:35	Presentation from NASA HQ on future Mars architecture	J. Watzin, NASA HQ
NASA's Planetary Science Deep Space SmallSat Studies (PSDS3) program selectees			
10:50	0:20	PRISM: Phobos Regolith Ion Sample Mission	M. Collier, PI
11:10	0:20	Chariot to the Moons of Mars	B. Horgan, Co-I
11:30	0:20	Aeolus – to study the thermal and wind environment of Mars	A. Colaprete, PI
11:50	0:20	MISEN: Mars Ion and Sputtering Escape Network	R. Lillis, PI
12:10	0:20	MAT: Mars Aerosol Tracker	L. Montabone, PI
12:30	0:20	Discussion	
12:50	0:10	Wrap-up	J. Johnson, R. Zurek, D. Beaty
13:00	--	Adjourn	

- Please mute your phone
- Use chat box on WebEx; moderators will track questions
- Feedback/questions during and after meeting? → MEPAGmeetingqs@jpl.nasa.gov 4

MEPAG Activities since July meeting #34 (1 of 2)

- July 13: Mid-term Decadal Survey (DS) Review Committee presentation (R. Zurek)
 - Committee was very appreciative for messages and concerns from the Mars community
 - https://mepag.jpl.nasa.gov/meeting/2017-07/MEPAG-Part-1-SAGs_4_Mid-Term_Final.pdf
 - <https://mepag.jpl.nasa.gov/meeting/2017-07/MEPAG-Part-2-Concerns-July-2017-final.pdf>
- Invited presentation at 12th Low-Cost Planetary Missions Conference (August 15-17, 2017, Pasadena)
 - “*The Role of Small Satellites in Addressing Mars Science Goals*”: well received by attendees
 - <http://www.lcpm12.org/wp-content/uploads/2017/08/1055-1115-Johnson.pdf>
 - Workshop included ~dozen presentations relevant to Mars
- Goals Committee work on mapping of polar science questions to MEPAG goals
 - D. Banfield (Goals Chair) and S. Dinega working with I. Smith, W. Calvin et al.
 - Expect report at next face-to-face meeting in Spring, 2018



MEPAG Activities since July meeting #34 (2 of 2)

- Goals Committee member rotation: Dr. David Brain (Univ. Colorado, Boulder) joining as Goal II representative as successor to Paul Withers (Boston University).

Thanks, Paul!



Welcome, David!

- Executive Committee rotations:
 - Request for indications of community interest for MEPAG activities in coming weeks
- New Mars discoveries and news items for MEPAG web page:
 - Receiving input from missions, Goals Committee, “science nuggets”
 - Expect to publish on MEPAG web page by end of 2017

InSight Status (B. Banerdt) – Things are Going Smoothly

- Passed System Integration Review, KDP-D (“Key Decision Point-D” = authorization to assemble and test spacecraft)
- Delivered fully-tested SEIS seismometer to Denver in late August
 - 2 weeks before need date
- Delivered fully-tested replacement HP³ (Heat Flow and Physical Properties Probe) to Denver in mid-September
 - 2 weeks before need date
- Lander is fully assembled, currently undergoing environmental testing; ATLO is on schedule, 38 days of margin
- No critical issues at this time
- Upcoming milestones:
 - Late February: Ship to Vandenberg
 - May 5: Open launch period
 - June 8: Close of launch period
 - November 26: Land on Mars

