

Agenda for MEPAG Meeting 38: Virtual Meeting on April 15-17, 2020

Location: Adobe Connect (see meeting website for connection info)

Start PDT	Duration	Virtual Meeting Agenda (drafted 04-11-2020) Note: All speakers should include time for discussion.	Start EDT
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Virtual Meeting - Wednesday, April 15, 2020

8:30 AM Start		MEPAG #38 Setting the Stage		11:30 AM Start	
08:30 AM	0:20	Welcome: Meeting Preview, MEPAG Updates	R.A. Yingst, MEPAG Chair	11:30 AM	
08:50 AM	0:30	NASA Planetary Science Division (PSD) Report	L. Glaze	11:50 AM	
09:20 AM	0:25	MEP Overview	J. Watzin / M. Meyer	12:20 PM	
09:45 AM	0:10	Discussion	All	12:45 PM	
09:55 AM	0:10	Break		12:55 PM	
Mars Exploration Program: Going Forward					
10:05 AM	0:30	MSR Campaign: Introduction	J. Watzin	01:05 PM	
10:35 AM	0:45	MSR Campaign: Retrieving the Samples	A. Nicholas	01:35 PM	
11:20 AM	0:25	Sample Protection: Breaking the Chain	M. Hendry	02:20 PM	
11:45 AM	0:15	Expectations for Backward PP	L. Pratt	02:45 PM	
12:00 PM	0:20	Conducting Science on the Returned Samples	M. Meyer	03:00 PM	
12:20 PM	0:25	Ice Mapper	J. Watzin / T. Haltigin	03:20 PM	
12:45 PM	0:15	Discussion	All	03:45 PM	
01:00 PM		End of Day 1 Virtual Meeting			04:00 PM

Virtual Meeting on Day 1

Virtual Meeting - Thursday, April 16, 2020

8:30 AM Start		Preparations for Decadal Survey		11:30 AM Start	
08:30 AM	0:20	MEPAG Support for Decadal Survey	R.A. Yingst	11:30 AM	
08:50 AM	0:15	Decadal Survey Status	D. Smith	11:50 AM	
09:05 AM	0:10	MEPAG Goals Document Update	D. Banfield	12:05 PM	
09:15 AM	0:15	Break		12:15 PM	
09:30 AM	3:30	White Paper "Lightning" Talks (see page 2)	Presenters	12:30 PM	
01:00 PM		End of Day 2 Virtual Meeting			04:00 PM

VM Day 2

Virtual Meeting - Friday, April 17, 2020

8:30 AM Start		Reports from Mars Missions		11:30 AM Start	
08:30 AM	0:10	Introduction	R.A. Yingst	11:30 AM	
08:40 AM	0:40	ExoMars: TGO & 2022 Rover/Surface Platform	J. Vago	11:40 AM	
09:20 AM	0:20	United Arab Emirates Mission to Mars	S. Amiri	12:20 PM	
09:40 AM	0:20	Mars Moons Exploration (MMX)	T. Usui	12:40 PM	
10:00 AM	0:15	Break		01:00 PM	
10:15 AM	0:20	M2020 (Perseverance): 90 Days to Launch	K. Farley	01:15 PM	
10:35 AM	0:20	InSight	B. Banerdt	01:35 PM	
10:55 AM	0:10	MAVEN	B. Jakosky	01:55 PM	
11:05 AM	0:10	MRO	R. Zurek	02:05 PM	
11:15 AM	0:15	MSL	A. Vasavada	02:15 PM	
11:30 AM	0:10	ODY	J. Plaut	02:30 PM	
11:40 AM	0:15	Break		02:40 PM	
Mars Architecture Strategy WG (MASWG)					
11:55 AM	0:10	MASWG Status	B. Jakosky	02:55 PM	
MEPAG Issues and Concerns					
12:05 PM	0:25	MEPAG Findings Old & New	R.A. Yingst	03:05 PM	
12:30 PM	0:30	Discussion	All	03:30 PM	
01:00 PM		End of Day 3 Virtual Meeting			04:00 PM

VM Day 3

Start PDT	Duration	White paper topics (presented on April 16/VM day 2)		Start EDT
09:30 AM	0:10	Overview of process and aims for this session	Serina Diniega	12:30 PM
Astrobiology and Subsurface Investigations				
09:40 AM	0:02	Astrobiology on Mars: Organic Chemical Evolution on an Earth-like Planet	Alfonso Davila	12:40 PM
09:42 AM	0:02	Mars as a Representative Habitable World and Prebiotic Environment	Aaron Engelhart	12:42 PM
09:44 AM	0:02	The Evolution of Habitable Environments on Terrestrial Planets: Insights and Knowledge Gaps from Studying the Geologic Record of Mars	Briony Horgan	12:44 PM
09:46 AM	0:02	Search for Modern Life on Mars: Compelling and Achievable in the Decade	Carol Stoker	12:46 PM
09:48 AM	0:02	Deep Trek: Exploring the modern-day subsurface habitability & life on Mars	Vlada Stamenkovic	12:48 PM
09:50 AM	0:02	Deep Trek: Technology & Mission Concepts for exploring the subsurface habitability & life on Mars	Vlada Stamenkovic	12:50 PM
09:52 AM	0:02	Trace Gas Consumption as a Metabolic Strategy for Life Beneath the Martian Surface and the Means to Detect It	Zachary Garvin	12:52 PM
09:54 AM	0:02	Mars Astrobiological Cave and Internal habitability Explorer (MACIE): A New Frontiers Mission Concept	Charity Phillips-Lander	12:54 PM
09:56 AM	0:02	MapX: An In-situ X-ray μ -mapper for Habitability and Biosignature Studies	David Blake	12:56 PM
09:58 AM	0:02	CheMinX: A Next Generation XRD/XRF for Mars Exploration	David Blake	12:58 PM
10:00 AM	0:02	Mars' Ancient Dynamo field and Crustal Remanent Magnetism	Anna Mittelholz	01:00 PM
10:02 AM	0:15	Discussion - e.g., thoughts on these topics? what's missing?		01:02 PM
10:17 AM	0:08	Break		01:17 PM
Mars Atmospheric and Surface Processes // Climate Record				
10:25 AM	0:10	MOSAIC PMCS: A comprehensive view of the Mars climate system	Rob Lillis	01:25 PM
10:35 AM	0:02	Observing Mars from Areostationary Orbit: Benefits and Applications	Luca Montabone	01:35 PM
10:37 AM	0:02	Measuring Mars Atmospheric Winds from Orbit	Scott Guzewich	01:37 PM
10:39 AM	0:02	Terrestrial Planets Comparative Climatology Mission Concep	Leslie Tamppari	01:39 PM
10:41 AM	0:02	Current Activity on the Martian Surface: A Critical Scientific Objective for Future Exploration	Colin Dundas	01:41 PM
10:43 AM	0:02	Toward Predicting Martian Dust Storms and Climate	Claire Newman	01:43 PM
10:45 AM	0:02	Mars as a "Natural Laboratory" for Studying Surface Activity on a Range of Planetary Bodies	Serina Diniega	01:45 PM
10:47 AM	0:02	A Critical Gap: In Situ Meteorological and Aeolian Measurements Beyond Earth	Serina Diniega	01:47 PM
10:49 AM	0:02	Planetary Aeolian Processes – Mars as an Analog for the Rest of the Solar System	Timothy Titus	01:49 PM
10:51 AM	0:02	Facilities for Planetary Aeolian Experimental Research	Devon Burr	01:51 PM
10:53 AM	0:02	A Case for Mars Polar Science in the Solar System	Isaac Smith	01:53 PM
10:55 AM	0:02	A Comparative Overview of Glacial and Periglacial Landforms on Earth and Mars	Anna Grau Galofre	01:55 PM
10:57 AM	0:02	Mid-Latitude Ice on Mars: A Science Target for Planetary Climates and a Resource for Exploration	Ali Bramson	01:57 PM
10:59 AM	0:10	PMCS: MORIE	Wendy Calvin	01:59 PM
11:09 AM	0:13	Discussion - e.g., thoughts on these topics? what's missing?		02:09 PM
11:22 AM	0:08	Break		02:22 PM
Human Resources // New Technologies and Mission Types				
11:30 AM	0:02	Expanding Mars Science Return in the MSR Era: The Need for, Capabilities of, and Challenges Associated with Small Mars Science Missions	James Kaufman	02:30 PM
11:32 AM	0:02	Mars Science Helicopter: Compelling Science Enabled by an Aerial Platform	Jonathan Bapst	02:32 PM
11:34 AM	0:02	Emerging Capabilities for Mars Exploration	Chad Edwards	02:34 PM
11:36 AM	0:02	High Science Value Return of Small Spacecraft at Mars	Nathan Barba	02:36 PM
11:38 AM	0:02	Discovery-class Missions for Mars Surface Exploration	Michelle Minitti	02:38 PM
11:40 AM	0:02	MER-class Rover Investigations of Mars in the Coming Decades	David Blake	02:40 PM
11:42 AM	0:02	Revolutionizing Access to the Martian Surface	Abigail Fraeman	02:42 PM
11:44 AM	0:10	PMCS: In Situ Geochronology for the Next Decade	Barbara Cohen	02:44 PM
11:54 AM	0:02	Survey for Resources Useful to Build a Permanent Mars Settlement	Bruce Mackenzie	02:54 PM
11:56 AM	0:02	Pterodactyl: Non-propulsive Control System Designs for Future Planetary Missions	Sarah D'Souza	02:56 PM
11:58 AM	0:02	TPS and Entry System Technologies for Future Mars and Titan Exploration	Robin Beck	02:58 PM
12:00 PM	0:02	User-focused Data Catalogs Enhance the Value of Planetary Missions	Shoshanna Cole	03:00 PM
12:02 PM	0:15	Discussion - e.g., thoughts on these topics? what's missing?		03:02 PM
12:17 PM	0:08	Break		03:17 PM
Broad look at Mars-related white papers				
12:25 PM	0:35	Discussion - what's missing? - what more could MEPAG do to help the community? Reminders about Decadal Survey white paper resources/schedule		03:25 PM