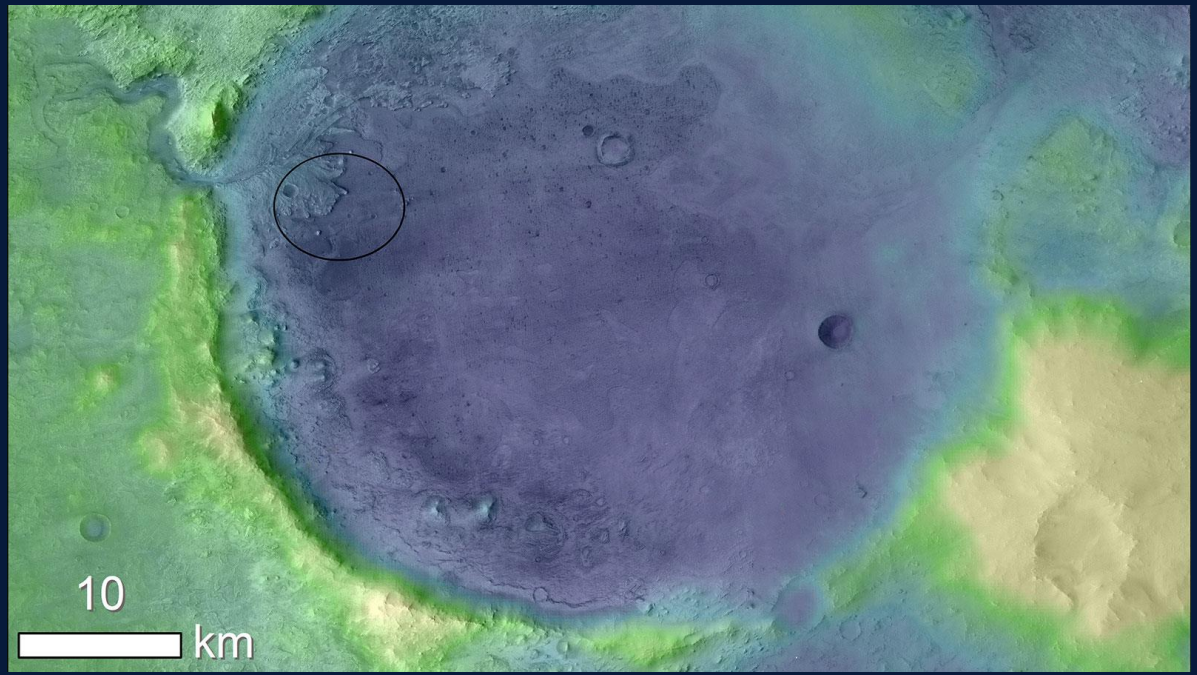
MEPAG Virtual Meeting (VM) 7

R. Aileen Yingst, MEPAG Chair

13 November 2019



MRO view of Jezero Crater with M2020 landing ellipse, shaded by elevation; https://mars.nasa.gov/resources/24681/jezero-craters-ancient-lakeshore/

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Agenda and Logistics:

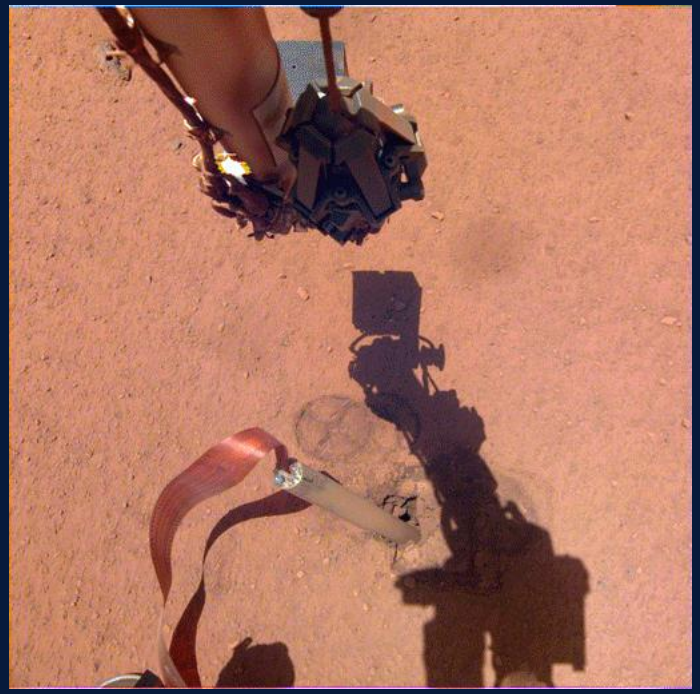
- Please mute your phone
- Use chat box on WebEx; moderators will track questions
- Feedback/questions during and after meeting? → MEPAGmeetinggs@jpl.nasa.gov
- Presentations will be online after meeting

MEPAG Virtual Meeting #7, Nov 13 2019, 3:00-5:00 p.m. EST		
Time (EST)	Topic	Speaker
3:00	1. MEPAG Activities since VM6	A. Yingst
3:10	2. Update on Decadal Survey preparations	A. Yingst
3:25	3. Goals Update	D. Banfield
3:30	4. NASA update (PAC findings, etc.)	M. Meyer
3:45	5. Mars Architecture Strategy Working Group (MASWG)	B. Jakosky
4:00	6. Reports/Discussion 6.1 China Conference--Space Activities	 J. Head
4:15	6.2 Planetary Protection Independent Review Board (PPIRB)	A. Hendrix
4:40	6.3 Extant Life Meeting Report	D. Beaty/B. Carrier
4:50	7. Discussion/Meeting Close	All
5:00	End	

Updates since VM6

- "Big Questions" and other MEPAG concerns and issues presented at CAPS meeting 11 September 2019

- MEPAG Findings from F2F in July presented at Planetary Science Advisory Council (PAC) meeting 24 September 2019



InSight's arm camera images The Pit; https://mars.nasa.gov/resources/24677/insights-arm-camera-stares-into-the-pit/?site=insight

Updates since VM6

- "Big Questions" as an outline for the Decadal Survey?
  - Benefits:
    - Removes privilege
    - Encourages broad body, interdisciplinary answers to science questions (e.g., multiple missions, multiple destinations)
  - Drawbacks:
    - Important science questions can fall through the cracks
    - May undercut the semi-strategic nature of New Frontiers
    - Turns discussion to questions, leaving missions to be vetted by peer review.

MSL image of Glen Etive region, with drill holes visible; https://mars.nasa.gov/resources/24670/curiosity-at-glen-etive/?site=msl

Updates since VM6

- "Big Questions" and other MEPAG concerns and issues presented at CAPS meeting 11 September 2019

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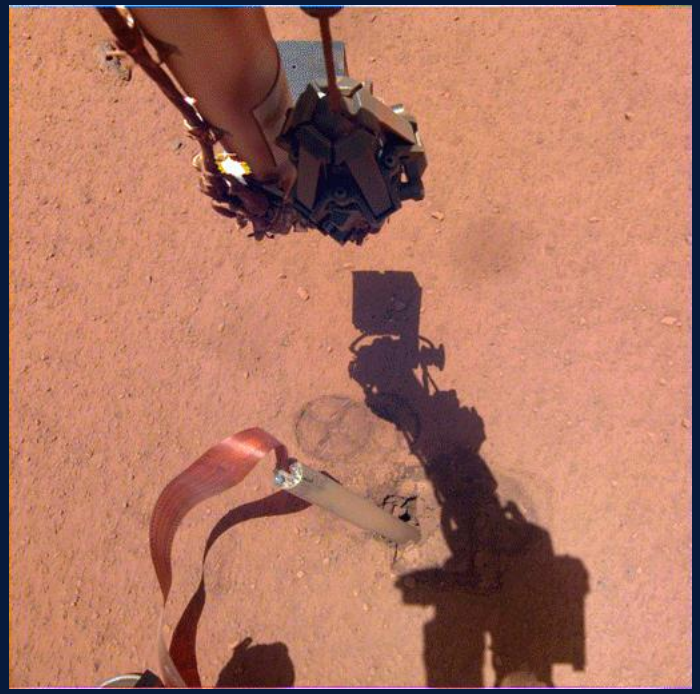
- https://www.space.com/mars-2020-rover-cost-overruns-impact-other-missions.html



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Decadal Survey tentative schedule

• NASA-NASEM negotiate Statement of Task	Fall-Winter 2019
• Web Site opens for White Paper	February 2020
• Chair/Co-Chairs for DS announced	March 2020 (LPSC)
• Deadline for White Paper Submittal	May 31, 2020
• DS Steering Committee/Panel Chairs organize	Summer 2020
• Final Report released	March 2022 (LPSC)

Decadal Survey — potential MEPAG white papers

- Mars Science Goals, Objectives and Priorities
- Mars as a compelling science target
- Mars Sample Return — importance to the entire community
- Other white papers based on findings (e.g., aging orbital assets)

Decadal Survey Information Site

https://mepag.jpl.nasa.gov/DecadalSurvey/Info_PlanetaryDS2020_MEPAG.pdf

Decadal Survey Googledocs Collaboration Site

https://docs.google.com/spreadsheets/d/1EOQRc5kYn5ZgIhEuZfEXQVApBpKpXMU-KZaJdLm2GxI/edit?usp=sharing

Mars Exploration Program Analysis Group (MEPAG)

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Upcoming Mars Activities

- 7th International Conference on Mars Polar Science and Exploration
  - January 13–17, 2020 in Ushuaia, Tierra del Fuego, Argentina
- Exoplanets in Our Backyard
  - February 5-7, 2020 in Houston, TX
- 3rd International Planetary Caves Conference
  - February 18-21, SwRI, San Antonio, TX
- V Mars Workshop
  - May 3–8, 2020 in Ecole de Physique, France
- 6th International Planetary Dunes Workshop
  - May 12-15, 2020 in Alamosa, CO
- Mars Atmosphere Modelling and Observations
  - June 8-11, 2020 in Paris, France

Backup slides

Executive Committee

R. Aileen Yingst, PSI
Chair

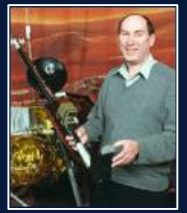
Jen Eigenbrode
GSFC

Dave Beaty
MPO/JPL

Michael Meyer, NASA HQ

Wendy Calvin, UNR

Don Banfield, Goals
Committee Chair, Cornell

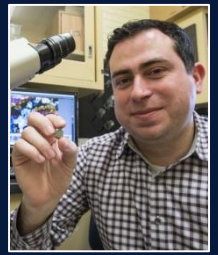


Rich Zurek
MPO/JPL

Jake Bleacher
NASA HQ

Scott Hubbard
Stanford

Justin Filiberto
LPI



Barbara Cohen
GSFC

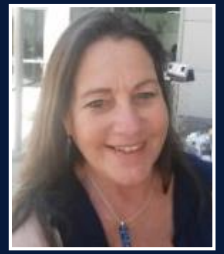
Paul Niles JSC

Mars Program Office associates

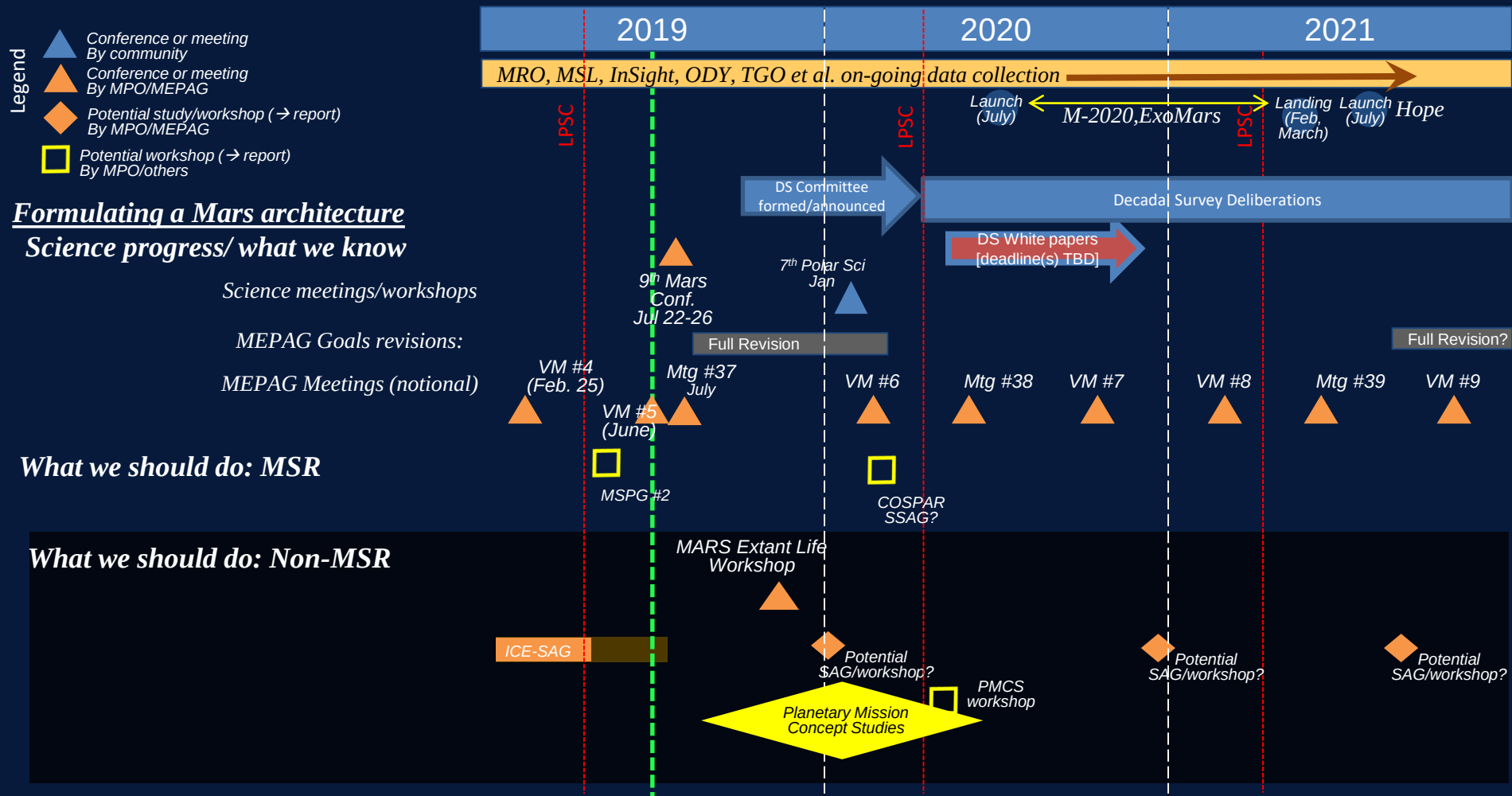
(Jet Propulsion Laboratory)

Serina Diniega

Brandi Carrier



Barbara Saltzberg

POTENTIAL MEPAG Timeline

VM#5, June 6, 2019