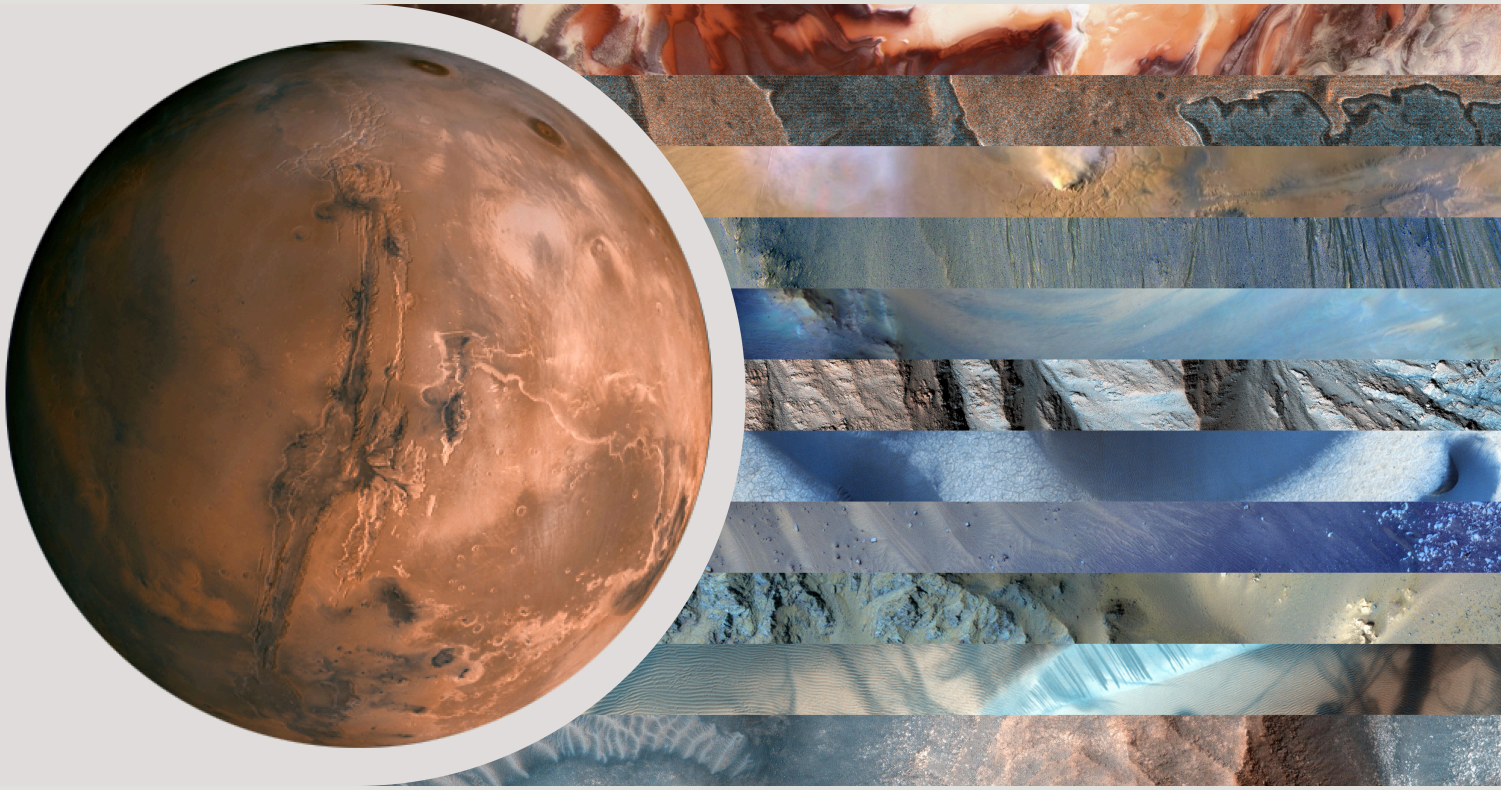
Update

Low-Cost Science Mission Concepts for Mars Exploration



MARCH 29-31, 2022
PASADENA, CA

#LowCostMars2022

New Dates!

Chad Edwards[1] & Shannon Curry[2]

[1]Jet Propulsion Laboratory, California Institute of Technology

[2]University of California, Berkeley

#LowCostMars2022 Status Update

- The #LowCostMars2022 Conference was scheduled for 11-13 Jan, 2022, to be held at the Westin Hotel in Pasadena, CA
  - Outstanding community response – full 2½-day program incorporating science, mission concepts, technology, and emerging commercial capabilities
- Based on the Omicron-driven COVID spike that occurred in December, the Conference Organizing Committee decided in late December to re-schedule the meeting to 29-31 March, 2022
  - Strong desire for an in-person event, to maximize opportunities for creative interactions among all participants
  - Venue remains the same – Pasadena Westin Hotel
  - It is hoped that the current Omicron COVID surge will have largely subsided by this time
  - New time frame is commensurate with expected PSADS release date, supportive of MEP planning activities

#LowCostMars2022 Status Update (Cont'd)

- Re-mapping scheduled program to new dates (no new abstract solicitation)
  - All presenters have been contacted to re-confirm plans to present
- In light of COVID concerns:
  - We will support a remote presentation capability for any oral presenter who is unable to attend in person *(but we still strongly encourage in-person participation for all who are able)*
  - Proof of vaccination will be required for all in-person participants

Program Preview

Tuesday, March 29

- Welcome
- Panel: Mars Science Goals for Low-Cost Missions
- Invited Talks: Programmatic Perspectives
- Panel: Lessons Learned in Low-Cost Mission Implementation
- Contributed Talks I
- Poster Session (w/ Lightning Talk Previews)

Wednesday, March 30

- Panel: Low-Cost Transportation to Mars
- Contributed Talks II
- Invited Talks: Challenge of the Surface
- Contributed Talks III
- Panel: NASA Technology Investments
- Poster Session (w/ Lightning Talk Previews)

Thursday, March 31

- Panel: Commercial Innovation for Low-Cost Missions
- Invited Talks: Cost Models for Low-Cost Missions
- Contributed Talks IV
- Closing Session

- *~70 invited and contributed talks & posters*
- *5 interactive topical panels*

- Full program info available at https://www.hou.usra.edu/meetings/lowcostmars2022/

Program Preview – Panel Highlights

Mars Science Goals for Low-Cost Missions

- *Aileen Yingst (PSI)*
- *Bruce Jakosky (U Colo, Boulder)*
- *Wendy Calvin (U of Nevada, Reno)*
- *Alfonso Davila (NASA ARC)*
- *Scot Rafkin (SwRI)*

Lessons Learned in Low-Cost Mission Implementation

- *Rob Lillis (UC Berkeley)*
- *Bethany Ehlmann (Caltech)*
- *Craig Hardgrove (ASU)*
- *Joel Krajewski (JPL)*

Low-Cost Transportation to Mars

- *Paul Wooster (SpaceX)*
- *Eric Salwan (Firefly Aerospace)*
- *Shaun Daly (NASA KSC)*
- *Ryan Woolley (JPL)*

NASA Technology Investments

- *Carolyn Mercer (NASA SMD)*
- *Christopher Baker (NASA STMD)*
- *John Baker (JPL)*
- *Michael Amato (GSFC)*

Commercial Innovation for Low-Cost Missions

- *Richard French (Rocket Lab)*
- *Timothy Linn (Lockheed Martin)*
- *Johannes Loschnigg (Blue Canyon Technologies)*
- *Steve Bailey (Redwire)*

…plus invited talks by:

- *Joe Parrish (JPL)*
- *Michelle Rucker (JSC)*
- *Rick Davis (NASA HQ)*
- *Chris Culbert (JSC)*
- *Rob Manning (JPL)*
- *Abby Fraeman (JPL)*
- *Dave Bearden (JPL)*

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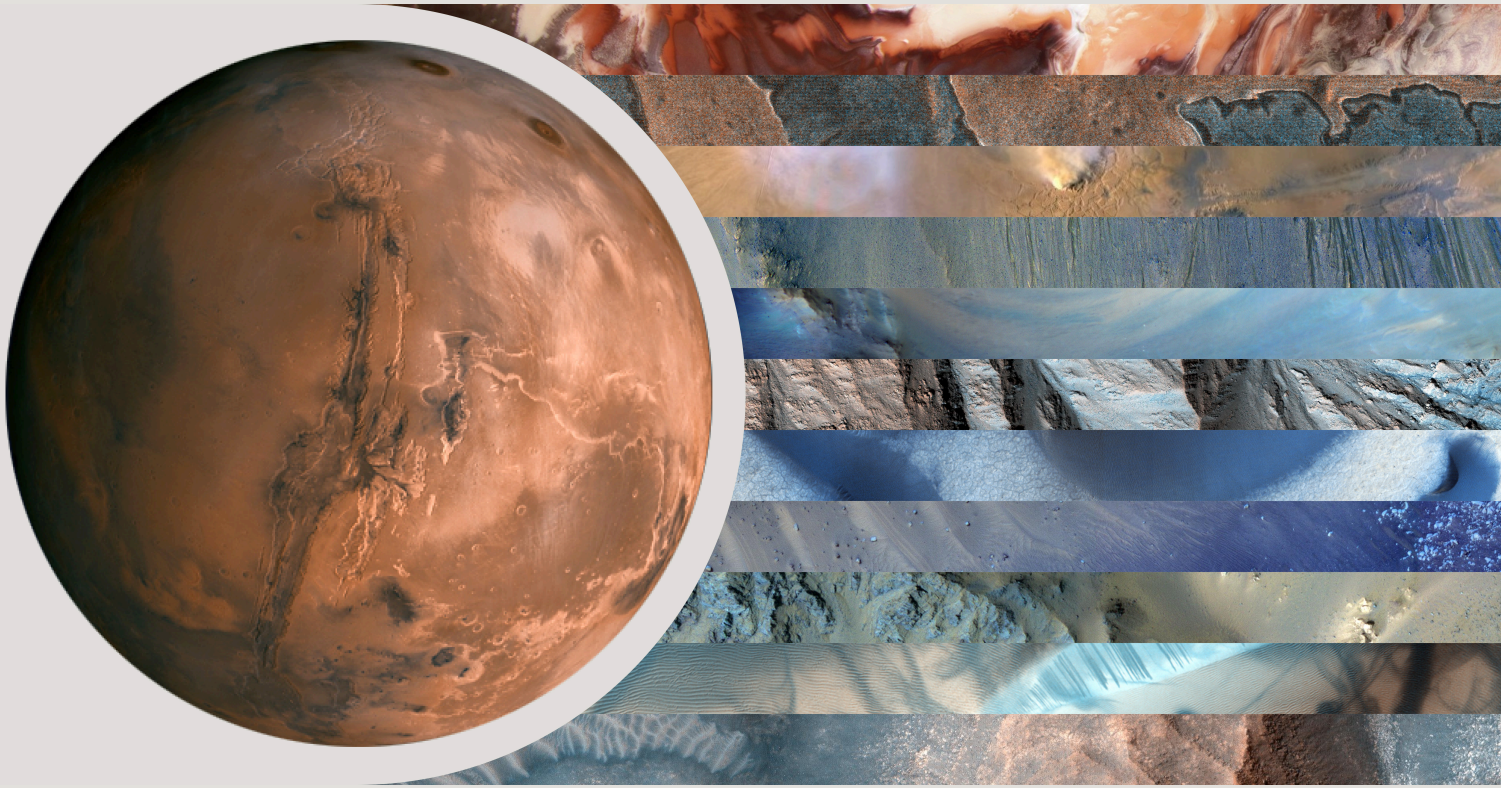

We hope to see you at #LowCostMars2022!