Thursday, March 23, 2017 **[R635]**
POSTER SESSION II: FUTURE MARS EXPLORATION AND LANDING SITES
6:00 p.m. Town Center Exhibit Area

Fawdon P. Grindrod P. Sefton-Nash E. Bridges J. C. Davis J. M. et al. ***POSTER LOCATION #577***
ExoMars 2020 Landing Site Characterisation: Slopes and Slope Traps **[#2109]**
We present analysis of slope hazards for ExoMars 2020 rover candidate landing sites, including non-escapable slope traps (e.g., steep flat bottomed craters).

Loizeau D. Quantin C. Duchaufour Q. Flahaut J. Bridges J. C. et al. ***POSTER LOCATION #578***
Loose Soil Presence and Characterization at the ExoMars 2020 Rover Candidate Landing Sites **[#1927]**
We evaluate the loose soil deposits at each of the landing site candidates for the 2020 ExoMars rover to characterize the surface for driving operations.

Loizeau D. Horgan B. Poulet F. Bishop J. L. ***POSTER LOCATION #579***
Mawrth Vallis as a Landing Site for the NASA Mars 2020 Mission **[#2988]**
Mawrth Vallis offers a long history of aqueous conditions, an optimal potential for preserving signs of life, and well distributed targets for Mars2020.

Rossato S. Pajola M. Baratti E. Pozzobon R. Quantin C. et al. ***POSTER LOCATION #580***
Boulders Abundances and Size-Frequency Distributions on Mars: The 2020 Exomars Landing Site - Oxia Planum **[#2114]**
Characterizations of boulders on a sector of the ExoMars2020 landing site. Importance of parental lithologies and rover safety implications are presented.

Bridges J. C. Loizeau D. Sefton-Nash E. Vago J.
Williams R. M. E. et al. ***POSTER LOCATION #581***
Selection and Characterisation of the ExoMars 2020 Rover Landing Sites **[#2378]**
We present an update on ExoMars2020 landing site selection and characterisation.

Turner S. M. R. Bridges J. C. ***POSTER LOCATION #582***
Mineralogical Analysis of ExoMars Rover Landing Sites Using CRISM **[#2228]**
Mineralogical analysis of the proposed ExoMars landing sites with false-color CRISM images overlain on HiRISE images to amplify morphological context.

Heather D. Lim T. Metcalfe L. ***POSTER LOCATION #583***
The ExoMars Rover Science Archive: Status and Plans **[#2132]**
This presentation will outline the current plans for archiving of the ExoMars rover and Surface Platform data and the challenges involved.

Gross C. Carter J. Poulet F. Loizeau D. Bishop J. L. et al. ***POSTER LOCATION #584***
Mawrth Vallis — An Auspicious Destination for the ESA and NASA 2020 Landers **[#2194]**
We present an overview of the Mawrth Vallis region to strengthen the merits of this high-priority target that fulfills the science requirements of both missions.

Golombek M. P. Otero R. E. Heverly M. C. Ono M.
Williford K. H. et al. ***POSTER LOCATION #585***
Characterization of Mars Rover 2020 Prospective Landing Sites Leading up to the Second Downselection **[#2333]**
Characterization of eight landing sites for the Mars 2020 rover indicate they are safe for landing and traversable to acquire scientifically important samples.

Golombek M. Kipp D. Daubar I. J. Kass D. Mischna M. et al. ***POSTER LOCATION #586***
Selection of the 2018 Insight Landing Site **[#1515]**
The 2018 InSight landing site is unchanged because seasonal atmosperic pressure, latitude constraints, and ellipse size are very similar to the 2016 launch.

Davis J. M. Williams R. M. E. Quantin C. Weitz C. M. Edgar L. et al. ***POSTER LOCATION #587***
The Southwest Melas Basin: In Situ Exploration of a Deltaic-Lacustrine System and Candidate Mars 2020 Landing Site **[#1873]**
This abstract outlines the science case and proposed targets for landing the Mars 2020 rover mission at the southwest Melas Basin in Valles Marineris.

Fergason R. L. Hare T. M. Kirk R. L. Piqueux S. Galuzska D. M. et al. ***POSTER LOCATION #588***
Mars 2020 Landing Site Evaluation: Slope and Physical Property Assessment **[#2163]**
To support the selection of the Mars 2020 landing site, we are generating and evaluating Digital Terrain Models and THEMIS-derived thermal inertia data.

Goudge T. A. Ehlmann B. L. Fassett C. I. Head J. W.
Mustard J. F. et al. ***POSTER LOCATION #589***
Jezero Crater, Mars as a Compelling Site for Future In Situ Exploration **[#1197]**
Jezero Crater / What a great place to explore / Mars 2020?

Maue A. D. Burr D. M. Jacobsen R. E. ***POSTER LOCATION #590***
Geomorphologic Map of an Icy Human Exploration Zone: Deuteronilus Mensae **[#2766]**
Geomorphologic features at a potential human landing site on the martian dichotomy boundary are mapped and identified.

Gallegos Z. E. Newsom H. E. ***POSTER LOCATION #591***
New HiRISE Observations from Two Candidate Human Exploration Zones on Mars: Mesopotamia and Protonilus Mensae **[#2983]**
New HiRISE observations in the Mesopotamia and Protonilus Mensae candidate human exploration zones reveal landscapes altered by martian glacial processes.

Garvin J. B. Malin M. C. Ravine M. A. ***POSTER LOCATION #592***
Descent Imaging of Sub-Meter Topography from Vertical Baseline Stereo Analysis of Curiosity MARDI Images, Gale Crater, Mars **[#2526]**
Digital Elevation Models computed from MSL Curiosity MARDI descent images permit quantitative analysis of geomorphology at sub-meter scales on Mars.