Program for the 5th MSL Landing Site Workshop Held May 16-18 in Monrovia, CA.

Monday, May 16th (Start at 8:30 am)

Introduction 8:30 to 9:30 am

Welcome

John Grant, Matt Golombek, Michael Meyer (15 minutes)

Status of MSL

John Grotzinger and Michael Watkins (15 minutes)

Discussion of the outcome of the workshop and where we stand on sites today John Grant and Matt Golombek (30 minutes)

Talks on Multiple Sites 9:30 to 11:30 [DesMarais, Tanaka]

Fluvial processes tiger team summary of the candidate MSL landing sites Ross Irwin (20 Minutes)

Impact crater processes in the MSL landing sites Horton Newsom, Jim Bell, Dawn Sumner (20 minutes)

Late alluvial fan formation in southern Margaritifer Terra John Grant and Sharon Wilson (15 minutes)

Crater counts and stratigraphical constraints on the age of the MSL landing sites Nicolas Mangold (15 minutes)

The search for fresh craters in the MSL landing ellipses Peter Buhler, Kenzie Day, and John Grotzinger (5 minutes)

Small rayed craters in or near the MSL landing ellipses: insights into the recent erosional history and potential sampling locations at each site Fred Calef (5 minutes)

Minimum area analysis of impact crater statistics: Lessons for the chronology assessment of the MSL landing sites

Nick Warner (5 minutes)

Mineralogical abundances of the phyllosilicate-bearing deposits of the four candidate MSL sites Francois Poulet and J. Carter (15 minutes)

CRISM-derived mineral abundances at the MSL landing sites
Bethany Ehlmann, Selby Cull, Ray Arvidson, and Francois Poulet (15 Minutes)

Disequilibrium as a habitability sign: An integrate tool Eugenio Simoncini, A. Delgado-Bonal, and F. J. Martin-Torres (5 minutes)

Effects of ionizing radiation on the chemical and isotopic composition of the geologic outcrops on Mars: Implications for MSL/SAM measurements
Alex Pavlov (5 minutes)

Potential to establish aqueous chemical processes and chemical stratigraphy of the MSL landing sites with aid of Fuzzy C Means analysis of multispectral imaging and use of FREZCHEM Jeff Kargel, Roberto Furfaro, Giles Marion, and Alexis Rodriguez (5 minutes)

Discussion (30 minutes)

Lunch Day 1 12:10 to 1:30 pm

Mawrth Vallis Talks 1:30 to 4:40 pm [Mustard, Morris]

Overarching questions related to the formation of units at Mawrth Vallis Jean-Pierre Bibring (10 minutes)

The early supracrustal rocks of Mars Nicolas Tosca, Joel Hurowitz, Dawn Sumner, and Ralph Milliken (15 minutes)

Distribution of breccias types in the Mawrth landing ellipse Dawn Sumner (10 minutes)

Ages of the clay-unit at Mawrth Damien Loizeau (10 minutes)

Mineralogical diversity of the AL phyllosilicate bearing unit at Mawrth Vallis: Evidence for acidrock interaction

Joe Michalski and Eldar Noe Dobrea (15 minutes)

THEMIS-modeled phyllosilicate abundances at the Mawrth Vallis landing site Christina Viviano and Jeff Moersch (10 minutes)

Evidence for poorly-crystalline Aluminosilicates at Mawrth Vallis from TES models Elizabeth Rampe (10 minutes)

Concentration and preservation of organics in clay-rich fluvio-lacustrine sediments: Lessons from the Painted Desert and its relevance to Mawrth Vallis, Mars.

Eldar Noe Dobrea, Andrew Aubrey, Fred Calef, and Caroline Freissinet (10 minutes)

Targets to address MSL goals and major Martian science objectives at Mawrth Vallis Nicolas Mangold et al. (15 minutes)

Science objectives that can be addressed by experiments on MSL at Mawrth Vallis Janice Bishop, Ray Arvidson, Damien Loizeau, and the Mawrth Vallis Team (15 minutes)

Operational and related science considerations for the evaluation of MSL landing sites Steve Ruff (10 minutes)

Discussion (60 minutes)

End of Day One at 4:40pm

Tuesday, May 17th (Start at 8:30 am)

Gale Crater Talks 8:30 to 11:10 am [Ming, Christensen]

What Gale crater can tell us about the history and habitability of Mars Ken Edgett (20 minutes)

Gale crater: A field site where MSL can test specific hypotheses about Martian climate and habitability

Jim Bell (15 minutes)

An aqueous origin for the entire Gale mound Tim Parker (10 minutes)

A visit by Curiosity to Gale crater's stratigraphic record of sulfate and clay-mineral deposition Dave Vaniman (15 minutes)

Mineralogy at Gale crater Ralph Milliken (15 minutes)

Gale as a preferred site for snowmelt-limited induration of atmospherically transported sediment

Edwin Kite (10 minutes)

Science targets along a proposed Gale crater traverse Ryan Anderson (15 minutes)

Stratal relationships in the Gale mound and implications for depositional environments Dawn Sumner (15 minutes)

Discussion (45 minutes)

Planetary Protection 11:10 to 12:10 pm [Zurek]

The Planetary Protection Constraints on MSL Landing Sites John Rummel (15 minutes)

Possible near-surface ice and implications for the candidate MSL landing sites Jack Mustard, Mathieu Vincendon, Francois Forget, Mikhail Kreslavsky, Aymeric Spiga, Scott Murchie, and Jean-Pierre Bibring (10 minutes)

MSL project considerations on Planetary Protection Ashwin Vasavada (20 minutes)

Discussion (15 minutes)

Lunch 12:10 to 1:15 pm

Eberswalde Crater Talks 1:15 to 3:20 pm [Sumner, Parker]

DEM analysis of the Eberswalde basin Kevin Lewis (15 minutes)

Eberswalde testable hypothesis: Ice-covered lakes Jim Rice (10 minutes)

Net assessment of the impact hypothesis for fluvial activity at Eberswalde and tests with MSL Edwin Kite (10 minutes)

High-resolution strata architecture of the Eberswalde 'delta': MSL targets and outcrop analogues
Sanjeev Gupta (15 minutes)

A detailed look at science targets within the Eberswalde landing ellipse Melissa Rice (15 minutes)

Mineralogy of select outcrops at Eberswalde Crater Nancy McKeown and Melissa Rice (15 minutes)

Discussion (45 minutes)

Holden Crater Talks 3:20 to 5:00 pm [Edgett, Phillips]

Models for terrestrial lacustrine systems and implications for Mars Kevin Bohacs and Alan Carroll (20 minutes)

Mineralogic diversity at Holden crater James Wray (15 minutes)

Candidate targets for exploration by MSL in Holden crater Ross Irwin (20 minutes)

Discussion (45 minutes)

End of Day 2 at 5:00 pm

Wednesday, May 18th (Start at 8:30 am)

Characterization Talks 8:30 to 11:35 [McEwen]

Update on Landing Site Characterization Matt Golombek (30 minutes)

CRISM Products supporting MSL landing site selection Frank Seelos (5 minutes)

Landing Safety at the MSL Sites Devin Kipp (30 minutes)

Atmospheric simulations at the MSL sites Al Chen (15 minutes)

Traversability at the candidate landing sites
Mike Watkins, Rick Welch, Paolo Bellutta (45 minutes)

Discussion (60 minutes)

Lunch 11:35 to 1:00 pm

Summary Discussion 1:00 to 4:00 pm

Revision and completion of the Quad Charts Strengths, weaknesses, remaining unknowns (180 minutes)

End of Workshop at 4:00 pm