Program for the Third MSL Landing Site Workshop

Doubletree Hotel, Monrovia, CA
September 15-17, 2008

Day 1 – Monday, September 15th

Welcome/Introductory Presentations

John Grant	*Overview of Process and Goals*	8:30
Mike Watkins	*Site Selection Process and Schedule*	8:40
Matthew Golombek	*Surface Characteristics Supporting Safety Evals*	9:00

Habitability and Preservation on Earth and Mars

Roger Buick 9:30
Earth's Earliest Record of Life

Roger Summons 10:00
Preservation of Organic Biomarkers on Earth

Nick Tosca 10:30
Habitability in Saline Environments on Mars

Lisa Pratt 10:45
Preservation of Organic Matter in Phyllosilicates

Alan Howard 11:15
Geomorphic Criteria for Defining Depositional Setting

John Grotzinger 11:45
MSL Science Goals and Site Evaluation Criteria

[Lunch from 12:30 pm to 1:30 pm]

Jeff Bada 1:30
Preservation of Organic Matter in Sulfates

Presentation and Discussion of Candidate MSL Landing Sites:

Miyamoto Presentations, Discussion, and Initial Vote **1:45-3:45**

H. Newsom 1:45
The Miyamoto Crater Floor Landing Site

L. Crumpler 2:15
Geologic Mapping of the Miyamoto site

S. Wiseman 2:30
CRISM Analysis of Miyamoto Crater

L. Tornabene and M. Osterloo 2:45
The Potential for Chloride Deposits at the Miyamoto site

Discussion and Initial Voting 3:00

South Meridiani Presentations, Discussion, and Initial Vote **3:45-5:45**

S. Wiseman and R. Arvidson 3:45
South Meridiani: Phyllosilicate / Sulfate-Hematite Contact

L. Crumpler and H. Newsom 4:15
Geologic Mapping and Fluvial History of South Meridiani

D. Fernández Remolar 4:30
Chances of Finding Preserved Biological Information at South Meridiani

Discussion and Initial Voting **4:45-5:30**

[End Day 1 at 5:30]

Day 2 – Tuesday, September 16th - Morning

Discussion of MSL Landing Sites Candidates

Nili Trough Presentations, Discussion, and Initial Vote **8:30**

J. Mustard 8:30
Introduction to the Nili Trough Landing Site

N. Mangold and B. Ehlmann 8:45
Geologic Setting, Context, and Mineralogy at Nili Trough

J. Mustard 9:05
Mineralogic and Morphologic Diversity in Nili Trough

D. Des Marais 9:25
Potential Habitability and Biosignature Preservation at the Nili Trough Site

J. Mustard 9:40
Summary and Critical Evaluation

Discussion and Initial Voting **9:50-10:30**

Holden Crater Presentations, Discussion, and Initial Vote **10:30**

J. Grant and R. Irwin 10:30
The Depositional Setting in Holden Crater

R. Irwin 11:00
Notional Traverses and Science Targets in Holden Crater

K. Whipple and R. Irwin 11:15
The Holden Bajada: A Target-Rich Landing Site

R. Milliken 11:30
CRISM Results for Holden Crater

Discussion and Initial Voting **11:45-12:30**

[Lunch from 12:30 to 1:30]

Day 2 Afternoon

Eberswalde Crater Presentations, Discussion, and Initial Vote **1:30**

J. Rice 1:30
Context, Diversity, Habitability and Preservation Potential at Eberswalde

M. Malin 1:45
The Depositional Setting at Eberswalde Crater

J. Moore 2:10
Depositional Setting and Sedimentary Materials at the Eberswalde Crater Site

K. Lewis 2:30
Geomorphic Aspects of Eberswalde Delta and Potential MSL Traverse

R. Milliken 2:45
CRISM Results for Eberswalde Crater

Discussion and Initial Voting **3:00-3:45**

Mawrth Presentations, Discussion, and Initial Vote **3:45**

J.-P. Bibring, N. Mangold, F. Poulet, D. Loizeau, and J. Michalski 3:45
The Mawrth Vallis Landing Sites

J. Bishop, N. McKeown and M. Parente 4:10
Kaolinite Deposits, Aqueous chemistry, and Habitability at Mawrth

J. Wray 4:40
Compositional Stratigraphy and Evidence for a Drape deposit

E. Noe Dobrea 5:00
The Mawrth Vallis Phyllosilicates Within a Regional Context

Discussion and Initial Voting **5:15-6:00**

[End Day 2 at 6:00]

Day 3 – Wednesday, September 17th

Discussion of MSL Landing Sites Candidates

Gale Presentations, Discussion, and Initial Vote **8:30**

K. Edgett and R. Milliken 8:30
The Gale Crater Landing Site

B. Thomson and N. Bridges 9:10
Stratigraphy at the Gale Crater Landing Site

L. Crumpler 9:25
Geologic Mapping of the Gale Crater Site

F. Calef, R. Herrick, and V. Sharpton 9:35
Possible Zunil Secondaries in the Gale Crater Landing Ellipse

Discussion and Initial Voting **9:45-10:30**

[10:30-10:45 Break]

Summary Presentations

John Grant and Matt Golombek 10:45
Summary Discussion and Site Evaluation Process

[Lunch 11:45 to 1:00 pm]

Discussion and Voting

Matt Golombek and John Grant **1:00 to 5:00**
Site Evaluations, Voting, and Ranking

[End of Landing Site Workshop at 5:00 pm]

Poster Presentations:

C. Fedo, B. Finkelstein, and J. Moersch
A Non-Deltaic Origin for Deposits in Eberswalde Crater

K. Larsen
Radar properties of candidate MSL landing sites from terrestrial delay-Doppler observations.

R. Kirk, E. Howington-Kraus, K. Coker, M. Hopkins, D. Cook, T. Sucharski, S. Mattson, and A. Boyd
Meter-Scale Topography and Slopes of Candidate MSL Landing Sites from HiRISE Stereo

E. Hauber, K. Gwinner, and R. Jaumann
The landing ellipse and beyond: HRSC and the geological context of MSL landing sites

J. Ashley
The Unique Merits of Aqueously Altered Meteorites found on Mars for Aid in Paleoclimate/Habitability Assessment: Advocacy for a Higher-latitude (20 -27 degree) MSL Site Selection

N. Bridges
Supporting Materials for the Gale Crater Candidate Landing Site

A. Vasavada and the MSL EDL Atmosphere Working Group
Atmospheric and Thermal Characterization of the MSL Landing Sites

R. Fergason
Thermal Inertia Maps of Candidate MSL Landing Sites

A. Huertas and M. Golombek
Rock Mapping and Distributions of Candidate MSL Landing Sites from HiRISE images

R. Beyer
Meter-scale slopes of candidate MSL landing sites from HiRISE point photoclinometry

M. Smith, A. Mushkin, A. Gillespie, L. Gilson, and M. P. Golombek
Quantitative Roughness Assessment at Proposed MSL Landing Sites