

Mars Exploration Science Monthly Newsletter

A publication of the Mars Program Office and the Mars Exploration Program Analysis Group (MEPAG)

Issue: July 2013

MEPAG #28 (Web Meeting) – July 23, 2013 (8:00 a.m. to 1:00 p.m. PDST)

Mars Science News

Dynamic Mars from long-term observations

(Corrected from previous version)

We are well into the 2nd decade of continuous Mars observations that began with *MGS* and have continued with *ODY*, *MEX*, *MRO*, and our landed spacecraft. Bridged to earlier times by spacecraft observations from the 1960s onwards, and a continuous telescopic campaign, our view of Mars is now one of a planet on which surface and atmospheric changes occur at frequencies of days, years, and decades, a testament to long-term monitoring that continues to this day. At this time, it is appropriate that this record, with implications for Martian geology, climate, atmospheric dynamics, and other processes, be integrated into a journal special section, submitted to *Icarus* by November 15, 2013.

This special issue is for for papers that:

- Include surface, sub-surface, and atmosphere observations, or model results, that are new and a unique outcome of the long-term data acquisition provided by Mars spacecraft and telescopes
- Highlight the long-term implications of processes that are observed and ongoing now
- Are *not* reviews of previous work

Author guidelines for preparation of manuscript can be found at

http://www.elsevier.com/wps/find/journaldescription.cws_home/505620/authorinstructions

Please contact the editorial office at icarus@astro.cornell.edu with any questions.

*Call for Participation - Training Opportunity
Photogrammetric Processing of Planetary Stereo Imagery using ISIS and
SOCET SET®, September 23-25, 2013*

The Planetary Photogrammetry Guest Facility (PPGF) at the Astrogeology Science Center of the U.S. Geological Survey would like to announce a new Call for Participation for a training opportunity on September 23-25, 2013, on Photogrammetric Processing of Planetary Stereo Imagery using ISIS and SOCET SET®. This session has already been announced earlier and most of the seats are already assigned. We are offering the opportunity to compliment the current list, as well as be on a waiting list in case of a cancellation. We also have initial plans on offering another training session either in November or December, 2013 on the same topic. If these dates are more convenient for your attendance, please let us know as well.

The training is free to participants, and will cover end-to-end, hands-on photogrammetric procedures for surface extraction from Mars Reconnaissance Orbiter HiRISE image pairs. The topics include

- ***An introduction to photogrammetric procedures and surface generation techniques;***
- ***Overview of HiRISE imagery; and***
- ***Workflow and data exchange between ISIS and SOCET SET.***

The hands-on training will include ISIS preprocessing, SOCET SET import of image and reference data, orientation procedures, triangulation and bundle adjustment, manual and automated surface extraction of digital terrain models (DTM), editing, and data export.

If you are interested in participating in this opportunity, please send an email to Dr. Raad Saleh (PlanetaryPhotogrammetry@usgs.gov) with the following specific information: your name, title, affiliation, address, full contact information, and a short statement describing your interest in the training. Please note that remaining seating for this session is very limited, so please express your interest as soon as possible.

Near-term Due Dates (next three months)	
Due	Project
7/18	International Scientific Workshop on Golden Spike Human Lunar Expeditions abstracts deadline
7/26	2013 Goldschmidt conference registration deadline
7/26	4th Planetary Crater Consortium meeting abstracts deadline
7/31	Lunar Exploration Analysis Group 2013 abstracts deadline
8/6	Geological Society of America Annual Meeting abstracts deadline
8/16	Hayabusa 2013: Symposium of Solar System Materials abstracts deadline
8/29	Workshop on Planetsimal Formation and Differentiation abstracts deadline

Upcoming Conferences and Workshops

Third Quarter, 2013		
	July 9, 2013 Washington, DC, USA	Target NEO 2 Workshop http://targetneo.jhuapl.edu
	July 7-12, 2013 Cologne, GERMANY	19th IAA Humans in Space Symposium http://www.his2013.com/
	July 7-14, 2013 Davos, SWITZERLAND	Davos Atmosphere and Cryosphere Assembly (DACA-13) http://www.daca-13.org
	July 10-11, 2013 Washington, DC, USA	9th Meeting of the NASA Small Bodies Assessment Group http://www.lpi.usra.edu/sbag/meetings/
	July 10, 2013 Moffett Field, CA, USA	4th Annual Lunar Graduate Conference (LunGradCon 2013) This is a virtual conference. http://lasp.colorado.edu/ccldas/lqc2013
	July 15-19, 2013 Moffett Field, CA, USA	NASA Lunar Science Forum Due to the recent government restrictions on travel, the NASA Lunar Science Institute will broadcast the annual NASA Lunar Science Forum (LSF) as a virtual conference the week of July 15-19, 2013. The broadcast will be approx. 6 hours per day between 8 a.m. – 4 p.m. PDT, Monday-Friday. http://lunarscience.nasa.gov/lcf2013/welcome
	July 22-25, 2013 Szczecin, POLAND	13th European Workshop on Astrobiology http://eana13.astrobiologia.pl/
	July 23, 2013	MEPAG #28 (Web Meeting)
	July 29-August 2, 2013 Edmonton, Alberta, CANADA	76th Annual Meeting of the Meteoritical Society http://www.metsoc2013edmonton.org
	July 29-August 2, 2013 Pasadena, CA, USA	25th Annual NASA Planetary Science Summer School http://pscischool.jpl.nasa.gov
NEW	August 1-2, 2013 JHU/APL Laurel, MD, USA	Comet ISON Observer's Workshop https://dnnpro.outer.jhuapl.edu/isonworkshop/Home.aspx

August 5-8, 2013
Sudbury, Ontario,
CANADA

Large Meteorite Impacts and Planetary Evolution V Conference

<http://www.lpi.usra.edu/meetings/sudbury2013/>

August 5-7, 2013
Washington, DC USA

Analog Sites for Mars Missions II: Past, Present and Future Missions to Mars

Note online discussion already started at
<http://planetsonearth.com/forums/general-discussion>
<http://planetsonearth.com/>

August 12-16, 2013
Pasadena, CA, USA

25th Annual NASA Planetary Science Summer School

<http://pscischool.jpl.nasa.gov>

August 14-16, 2013
Flagstaff, AZ, USA

4th Planetary Crater Consortium Meeting

Abstract deadline is Friday, July 26, 2013
For more information, contact Nadine.Barlow@nau.edu
<http://www.planetarycraterconsortium.nau.edu/>



August 15-18, 2013
Boulder, CO, USA

2013 International Mars Society Convention

Convened by the Mars Society space advocacy group. Hear from dozens of key scientists, experts and policymakers about Mars exploration, including updates on NASA's Curiosity rover and MAVEN spacecraft, scheduled for launch this November, as well as planning for a humans-to-Mars mission.

<http://www.marssociety.org/>

August 16-25, 2013
Kuressaare, ESTONIA

Summer Course: "Impacts and their Role in the Evolution of Life"

<http://www.nordicastrobiology.net/Impacts2013/>



August 25-30, 2013
Florence, ITALY

2013 Goldschmidt Conference

Session 026: "Martian Evolution; Ancient Messengers and Modern Measurements"

<http://goldschmidt.info/2013/index>

August 27-31, 2013
Paris, FRANCE

IAG/AIG International Conference on Geomorphology

<http://www.geomorphology-iaq-paris2013.com/en>

September 8-13, 2013
London, UK

European Planetary Science Conference (EPSC 2013)

<http://www.epsc2013.eu>



September 23-24,
2013
London, UK

Origin of the Moon

<http://royalsociety.org/events/2013/origin-moon/>

September 24-28,
2013
Medellin, COLOMBIA

2nd International Congress of Astrobiology in Columbia

<http://www.planetariomedellin.org/programacion/ii-congreso-internacional-de-astrobiologia/#.UZ1W1dhkk9k>



September 25-26,
2013
Chicheley, UK

Origin of the Moon – Challenges and Prospects

<http://royalsociety.org/events/2013/moon-origiqn-satellite/>

Fourth Quarter, 2013



October 3-4, 2013
Houston, TX, USA

International Scientific Workshop on Golden Spike Human Lunar Expeditions

<http://www.lpi.usra.edu/meetings/gsl2013/>

October 6-11, 2013
Denver, CO, USA

45th Meeting of the American Astronomical Society Division for Planetary Sciences (DPS 2013)

<http://aas.org/meetings/45th-meeting-division-planetary-sciences>



October 14-16, 2013
Laurel, MD, USA

Lunar Exploration Analysis Group Meeting
Abstracts deadline July 31, 2013
<http://www.lpi.usra.edu/meetings/leag2013/>

October 14-18, 2013
Moscow, Russia

Fourth Moscow International Solar System Symposium
<http://ms2013.cosmos.ru>

October 16-18
Sagamihara, Kanagawa
Japan

Hayabusa 2013: Symposium of Solar System Materials
Call for abstract : 15 July 2013
Abstract submission due : 16 August 2013
<http://hayabusaao.isas.jaxa.jp/symposium/>



October 20-25, 2013
Les Houches, FRANCE

Planet Mars 4 Workshop
<http://www.sciops.esa.int/mars4>

October 27-30, 2013
Denver, CO, USA

Geological Society of America Annual Meeting
Mars exploration is revealing a wealth of information regarding the early evolution of the terrestrial planets. We encourage contributions from across the Mars Geoscience community focused on geology and geomorphology in Gale crater as discerned from analysis of data collected by the Curiosity rover and from orbiting spacecraft. Abstract deadline August 6, 2013.
<http://community.geosociety.org/2013AnnualMeeting/Home/>

NEW

October 27-29, 2013
Washington, DC

Workshop on Planetary Formation and Differentiation
Abstract submission due on August 29, 2013, 5:00 PM (CDT)
Registration deadline on October, 14, 2013, 5:00 PM (CDT)
<http://www.hou.usra.edu/meetings/planetesimal2013>

November 11-15, 2013
Bangkok, THAILAND

First COSPAR Symposium on "Planetary Systems of Our Sun and Other Stars, and the Future of Space Astronomy"
Abstracts deadline May 31, 2013
<http://www.cospar2013.gistda.or.th/>



November 18, 2013

MAVEN Launch Period Opens

November 19-21, 2013
Washington, DC, USA

Venus Exploration Analysis Group (VEXAG) Meeting
Contact Lori Glaze (lori.s.glaze@nasa.gov)

December 9-13, 2013
San Francisco, CA, USA

AGU Fall Meeting

2014



March 2014

45th Lunar and Planetary Science Conference

June 15-19, 2014
St. Louis, MO

2014 International (11th) Georaman Conference
Abstracts deadline March 31, 2014
<http://georaman2014.wustl.edu/>

NEW

June 16-21, 2014
Noordwijk, Netherlands

48th ESLAB Symposium: New Insights into Volcanism Across the Solar System
Contact: Sebastian Besse, sbesse@rssd.esa.int



July 2014
Pasadena, CA, USA


Tentative date for the 8th International Conference on Mars

July 6-11, 2014
Nara, JAPAN



ORIGINS 2014
<http://www.origin-life.gr.jp/origins2014/index.html>

NEW	July 21-25, 2014 Lanzhou, CHINA	Eighth International Conference on Aeolian Research (ICAR VIII) Special session on extra-terrestrial Aeolian research.
	August 2-10, 2014 Moscow, RUSSIA	40th COSPAR 2014 and Associated Events http://www.cospar-assembly.org/
	September 22, 2014	MAVEN Mars Orbit Insertion (MOI)
	October 19-22, 2014 Vancouver, British Columbia, CANADA	Geological Society of America Annual Meeting
	November 9-14, 2014 Tucson, AZ, USA	46th Meeting of the American Astronomical Society Division of Planetary Sciences (DPS 2014) http://dps.aas.org/meetings
	December 15-19, 2014 San Francisco, CA, USA	AGU Fall Meeting

2015

	March 2015	46th Lunar and Planetary Science Conference
	November 1-4, 2015 Baltimore, MD, USA	Geological Society of America Annual Meeting

2016

	January 7, 2016	20-Day ExoMars Launch Period Opens
	March 8, 2016	20-Day Insight Launch Window Opens
	September 20, 2016	InSight Arrival at Mars
	October 16, 2016	ExoMars Arrival at Mars

Special holidays to consider when scheduling conferences/workshops/meetings:

Good Friday	3/29/2013	4/18/2014	4/3/2015	4/6/2016	4/14/2017
Rosh Hashanah	9/5/2013	9/25/2014	9/14/2015	9/16/2016	9/20/2017
Yom Kippur	9/14/2013	10/4/2014	9/23/2015	9/25/2016	9/29/2017
(Note that Jewish holidays start at sundown the previous evening).					
Thanksgiving Day, U.S.	11/28/2013	11/27/2014	11/26/2015	11/22/2016	11/23/2017
Thanksgiving Day, Canada	10/14/2013	10/13/2014	10/12/2015	10/8/2016	10/9/2017
Christmas Day	12/25/2013	12/25/2014	12/25/2015	12/25/2016	12/25/2017

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Please send your Mars Community Announcements and calendar items for inclusion in next month's email to Carla de la Paz at paz@jpl.nasa.gov, 818-354-3160.

All announcements listed in this newsletter will be posted on the MEPAG website, available at <http://mepag.jpl.nasa.gov>.