



# 16<sup>TH</sup> ANNUAL INTERNATIONAL MARS SOCIETY CONVENTION

UNIVERSITY OF COLORADO  
AT BOULDER

AUGUST 15-18, 2013

FINDING LIFE  
ON MARS



MARS SOCIETY







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## Program Schedule

### The 16th Annual International Mars Society Convention

The University of Colorado, Boulder, August 15-18, 2013

*The following is the program schedule for the 2013 convention.*

Wednesday, August 14 3:00-6:00pm *Early Registration, University Memorial Center (UMC) Glenn Miller Ballroom Atrium*

Wednesday, August 14 7:00-9:00pm *Mars Society Steering Committee Meeting, Boulder Inn*

*All other talks will be held at [the University of Colorado](#). All plenaries will be held in [the UMC Glenn Miller Ballroom](#).*

#### Thursday, August 15

##### Morning Plenaries

##### Main Ballroom

9:00 am-12:00 pm

##### Dr. Robert Zubrin

*How We Can Reach Mars*

The Mars Society

##### Dr. James Reuther

*NASA Space Technology Program and Planning*

NASA Space Technology Mission Directorate

##### Dr. Julie Castillo-Rogez

*InSight Mission*

Jet Propulsion Laboratory

##### John Brophy

*Dawn Mission & the Future of Solar Electric Propulsion Technology*

Jet Propulsion Laboratory

##### Afternoon Plenary

##### Main Ballroom

1:00-2:00 pm

##### Giorgio Gaviraghi and

*Mars Master Plan*

Andre Caminoa

##### Track 1A

##### Tech 1

##### Main Ballroom

2:00-2:30 pm

James Brown

*Developing a Critical Hardware List*

2:30-3:00 pm

Heather Chluda

*Waste and Trash Reduction Methods for Mars and Interplanetary Travel*

3:00-3:30 pm	John Marshall	<i>Catalytic Separation of CO<sub>2</sub> on Mars</i>
3:30-4:00 pm	Dr. Anthony Muscatello	<i>Atmospheric Processing Module for Mars Propellant Production</i>
4:00-4:30 pm	Dr. G.W. Johnson	<i>Re-Usable Ceramic Heat Shields at Mars?</i>
4:30-5:00 pm	Donovan Chipman	<i>Large Mars Surface Payloads Delivered Using Fully Retro-Propulsive Landing Vehicle</i>

**Track 1B****Analog 1****West Ballroom**

2:00-2:30 pm	Kyle Flaherty	<i>R.A.A.M Radio Astronomy at MDRS</i>
2:30-3:00 pm	Patricia Smedley	<i>MDRS Astronomy Refit Crew Summer 2013</i>
3:00-3:30 pm	James Veselka	<i>C.A.R.E (Communication-Audio Range Ergonomics)</i>
3:30-4:00 pm	Bao Pham	<i>Simulating Resistance in Space Suits in a Mars Analog Environment</i>
4:00-4:30 pm	Kent Nebergall	<i>Spacesuit Equipment Considerations</i>
4:30-5:00 pm	Eiji Onchi	<i>Data Acquisition Module Study (DAMS) at MDRS</i>

**Track 1C****Outreach****East Ballroom**

2:00-2:30 pm	Angel Feijoo	<i>Use of Virtual Worlds for Awareness and Research on Mars Exploration</i>
2:30-3:00 pm	Bruce Mackenzie	<i>Children's Mars Homestead</i>
3:00-3:30 pm	Barry Evans	<i>Bringing Mars to the Public: The Science Writer's Challenge</i>
3:30-4:00 pm	Chuck McMurray	<i>Enabling the Creative Artist: How We Can Excite the Next Generation about Mars Using "Docudrama" Genre</i>
4:00-4:30 pm	Jim Secosky	<i>What an Astronaut Needs to Know about Martian Geography and Geology</i>
4:30-5:00 pm	Nick Musachio	<i>Presenting and Demonstrating Zero Gravity Fitness Devices for Mars Colonization</i>

**Evening Panels****Main Ballroom**

7:00-8:00 pm	<i>Mars Exploration - The Next Steps</i>
	Panelists: <b>Dr. David Brain and TBA</b>
8:00-9:00 pm	<i>NASA's Asteroid Mission: Breakthrough Idea or Absurdity?</i>
	Panelists: TBA

**Evening Entertainment****Main Ballroom**

9:00 pm	Michael Carroll Space Artist	<i>Drifting on Alien Winds: the weather on Mars and other worlds / Book Signing</i>
9:45 pm		JPL Movie, <i>A Year of Curiosity on Mars</i>

**Friday, August 16****Morning Plenaries****Main Ballroom**

9:00 am - 12:00 pm

**Dr. Donald Hassler***Results of MSL Radiation Detection Instrument (RAD)*

Southwest Research Institute

**Chris Voorhees***Mining the Asteroids*

Planetary Resources

**James Muncy** *Opening the Way through Commercial Spaceflight*

Commercial Space Flight Federation

**Mr. Dennis Tito & Mr. Taber MacCallum** *Inspiration Mars Mission*

Inspiration Mars

#### Afternoon Panel

#### Main Ballroom

1:00-2:00 pm

*How to Get Involved with Inspiration Mars*

Panelists: **Dennis Tito, Dr. Robert Zubrin, Taber MacCallum**

#### Track 2A

#### Tech 2

#### Main Ballroom

2:00-2:30 pm Dr. Percival McCormack *Alternative Radiation Protection Strategy- Increase the Human Capacity for DNA Double Strand Break Repair*

2:30-3:00 pm Dr. David Sherris *Development of a Therapeutic Agent for Radiologic Protection Against Cancer & other Disease for Long-Term Space Travel*

3:00-3:30 pm Dr. Susan Jewell *The Gravity-loading Counter Measure Skinsuit, GLCS, Mark III "Spaceskin" An Integrated Multi-System Countermeasure Hardware Study Proposal*

3:30-4:00 pm Dr. Brian Hanley *Solar System Explorers Need to Develop Radiation Treatment Sophistication*

4:00-4:30 pm Rt.Rev James Heiser *Theology, Myth and the Settlement of a New World*

#### Track 2B

#### Analog 2

#### West Ballroom

2:00-2:30 pm Shannon Rupert *Training for Mars at the Mars Desert Research Station*

2:30-3:00 pm Randy Sommerfelt *Physicochemical and Respiration Dynamics of Mars Soil*

3:00-3:30 pm Alysén Johnson *The Effects of the Mars Environment on Human Hydration*

3:30-4:00 pm Jennifer Johnson *Health Areas Affecting Individual and Crew Abilities to Adapt to Simulated Isolated Environment*

4:00-4:30 pm Humberto De las Casas *Team Peru Observations: MDRS Crew 126*

4:30-5:00 pm Andrea Lazarte *Planetary Analogue EVA Medical Emergency Simulations*

#### Track 2C

#### Financial

#### East Ballroom

2:00-2:30 pm Bruce Mackenzie *Open Discussion of Financing Mars Settlement*

2:30-3:00 pm Mina Mukhar *The Mars Initiative: An Overview*

3:00-3:30 pm Petr Konůpek *How to Finance Flights to Mars?*

3:30-4:00 pm Jim Secosky *Location and Cause of Martian Ice Deposits*

4:00-4:30 pm Jim Secosky *Where I Want to Walk on Mars*

#### Evening Panels

#### Main Ballroom

7:00-8:00 pm

*The Significance of Curiosity's RAD Results*

Panelists: **Dr. Robert Zubrin & TBA**

8:00-9:00 pm

*Mars Arctic 365 Mission*

Panelists: TBA

Evening Entertainment

9:00 pm

*Short Takes from Mars- Gerry Williams***Saturday August 17**

Saturday will feature **Mars STEM Education Program** for young people from 10:00am to 4:00pm in the East Ballroom, running concurrent with other events.

**Morning Plenaries****Main Ballroom**

9:00 am -12:00 pm

**Dr. Nick Schneider***MAVEN Mission to Mars*

University of Colorado/Boulder

**Mark Geyer***Orion: Countdown to Exploration Flight Test-1*

NASA

**Dr. James Wray***Mars Reconnaissance Orbiter*

Georgia Institute of Technology

**Leonard David***Space and the Press***Special Noon Event****Afternoon Plenaries****Main Ballroom**

1:00-2:30 pm

**Dr. Fred Singer***Phobos and Deimos: Way Stations to Mars*

University of Virginia

**Dr. Jim Bell***Roving on Mars with Opportunity and Curiosity*

The Planetary Society

**Track 3A****Tech 3****West Ballroom**

2:30-3:00 pm Boris Segret

*CubeSat on an Earth-Mars Free-Return Trajectory to Study Radiation Hazards in Future Manned Missions*

3:00-3:30 pm Paul Tar

*Quantitative Martian Image Analysis*

3:30-4:00 pm Joe Palaia

*Mars Arctic 365*

4:00-4:30 pm Bruce Mackenzie

*Leapfrog Across the Galaxy and Beyond*

4:30-5:00 pm Marshall Barnes

*Advanced Concept Solutions for Travel to and Communications with Mars***Track 3B****Analog 3****HELLEMS 241**

2:30-3:00 pm Dr. Jean Hunter

*Mars on a Mountain: The Hawaii Space Exploration and Simulation Project*

3:00-3:30 pm Bruce Mackenzie

*3D Printing for Hawaii HI-SEAS Mars Habitat*

3:30-4:00 pm Monica Abarca

*Establishment of a Mars Analogue Research Station in Pampas de La Joya (Peru's Atacama Desert)*

4:00-4:30 pm Franco Carbognani

*A Google Summer of Code on Mars***Track 3C****Philosophical Issues****HELLEM 267**

2:30-3:00 pm Kent Nebergall

*Interplanetary and Interstellar Cultural Modeling*

3:00-3:30 pm	Dr. Martin Fowler	<i>Why You Belong on Mars (and You Always Did)</i>
3:30-4:00 pm	Marvin Hilton	<i>Exploring Mars to Improve Life on Earth</i>
4:00-4:30 pm	Rt. Rev James Heiser	<i>Christianity and Space Exploration</i>
4:30-5:00 pm	Gary V. Stephenson	<i>The Application of Living Systems Theory to Mars Missions</i>

**Evening Banquet**

6:30-11:00 pm

Featured Speaker

**Dr. Steven Squyres**

Professor of Astronomy, Cornell University and Principal Investigator, Mars Exploration Rover Mission

**Sunday, August 18****Morning Plenaries****Main Ballroom**

9:00 am- 12:00 pm

**Dr. Carol Stoker***Present Day Habitability of Mars*

NASA Ames Research Center

**Dr. Cameron Smith***Emigrating Beyond Earth*

Anthropologist, Portland State University

**Dr. Michael Bosch***Creating an International Mars University***Special Panel***Mars Desert Research Station*

Panelists: Shannon Rupert, Dr. Jean Hunter

**Afternoon Plenary****Main Ballroom**

1:00-2:00 pm

**Bas Lansdorp***Mars One and Its Planning*

Co-Founder &amp; CEO, Mars One

**Afternoon Panel**

2:00-3:00 pm

*University Rover Challenge*

Panelists: Chuck McMurray &amp; TBA

3:00 pm

*Closing Plenary***Dr. Robert Zubrin****Comments**Copyright © 1998–2012 The Mars Society | [Contact Us](#)[Sign in](#) | [Report Abuse](#) | [Print Page](#) | [Remove Access](#) | Powered By [Google Sites](#)