

17<sup>th</sup> ANNUAL INTERNATIONAL MARS SOCIETY CONVENTION



**THE MARS SOCIETY**

BLAZING THE PATH TO MARS    LEAGUE CITY, TEXAS, AUGUST 7-10, 2014

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**2014 Convention Program Itinerary**

**The 17th Annual International Mars Society Convention**

**South Shore Harbour Resort (SSHR), League City, TX, August 7-10, 2014**

*The following is the preliminary program schedule for the 2014 convention.*

Wednesday, August 6 (4:00-6:00 pm), *Early Registration*, SSHR, Pre-function Area

Wednesday, August 6 (7:00-10:00 pm), *Mars Society Steering Committee Meeting*, SSHR Board Room

*All plenary sessions will be held in the Crystal Ballroom*

**Thursday, August 7**

7:30-9:00 am *Registration, Pre-Function Area*

**Morning Plenaries, Crystal Ballroom**

9:00 am-12:00 pm

**Dr. Robert Zubrin**                      *How We Can Reach Mars*

The Mars Society

**Gerald “Gerry” Sanders**            *In-situ Resource Utilization (ISRU) on Mars*

NASA Johnson Space Center

**Dr. Everett Gibson**                      *The Search For Biosignatures on Mars*

NASA Johnson Space Center

<b>Track 1-A</b>	<b>Technologies for Mars Exploration-1 Crystal Ballroom</b>
1:00-1:30 pm	<b>Dr. Anthony Muscatello</b> , <i>Mars Propellant Production with ISRU</i>
1:30-2:00 pm	<b>Gerald Black</b> , <i>Need for a New Heavy Lift Strategy</i>
2:00-2:30 pm	<b>Eric Shear</b> , <i>Solar Water Vapor Balloons for Martian Polar Expeditions</i>
2:30-3:00 pm <i>The Environments</i>	<b>Humberto De las Casas, Alejandro Diaz, Jorge Mirez, Josh Borchardt</b> , <i>Performance of a Rover and a Hexapod in Martian</i>
3:00-3:30 pm <i>Reliability and</i>	<b>Kent Nebergall</b> , <i>Small Mission Modules: Spacecraft Interiors for Extreme Adaptability at Minimal Cost</i>
3:30-4:00 pm <i>Human Mars</i>	<b>Dr. John E. Brandenburg</b> , <i>The Utility of Fusion-Fission Hybrid Reactors of Mission Surface Power.</i>
4:00-4:30 pm	<b>Maxwell Fagin</b> , <i>Numerical Optimal Control Methods Applied to Mars EDL.</i>
4:30-5:00 pm	<b>Ron Bennet</b> , <i>A New Way to Land Payloads Safely on Mars</i>
<b>Track 1-B</b>	<b>Mars Analog Research Hunt Room</b>
1:00-1:30 pm	<b>Dr. Jean Hunter</b> , <i>World Space Week 2013 Mission to Mars</i>
1:30-2:00 pm	<b>First Lt. Heidi Beemer</b> , <i>Mars Shelter Geology Project</i>
2:00-2:30 pm	<b>Dan Wilcox</b> , <i>Heading to Mars</i>
2:30-3:00 pm <i>Water Flow</i>	<b>Luiggi Tello &amp; Diego Guillen</b> , <i>Design of a Water Saving Plan based on Measurement for the Mars Desert Research Station.</i>
3:00-3:30 pm	<b>Michael Shepard</b> . <i>Applications of Remote Sensing in Mars Analog</i>
3:30-4:00 pm <i>MDRS</i>	<b>Dylan Kirby</b> , <i>Team-building, Cohesion, and the Maintenance of Simulation at MDRS</i>
4:00-4:30 pm	<b>Selena Barrientos</b> , <i>Team Building, Stress, and the Maintenance of Sim</i>
4:30-5:00 pm	<b>Alice Yount</b> . <i>Fungal Contamination in the Mars Desert Research Station</i>
<b>Track 1-C</b>	<b>Mission Strategies Amphitheater</b>
1:00-1:30 pm	<b>Dr. John E Brandenburg</b> . <i>Mars-Phobos SEP (Solar Electric Propulsion): A</i>

*Rapid Mars*

*Mission Architecture*

1:30-2:00 pm  
*Robotic Mars*

**J.Venkatesan, Dr. K.M. Parammasivam & S. Rao**, *Concepts for Future Manned Missions.*

2:00-2:30 pm  
*Performance-*

**Dr. Nimish Bioria, Andrei Musetescu & Iulian Ivan**, *Mission to Mars: a Driven Design Approach.*

2:30-3:00 pm  
*A Downsized*

**Kevin Hambsch**, *Mars Direct vis a vis Existing and Emerging Technologies: Mission for Two – Can it be Done?*

3:00-3:30 pm  
*Architecture*

**John K. Strickland**, *Human Mars Missions based on a Unified Transport*

3:30-4:00 pm  
*Beyond Earth*

**Ravi Shakya, R. Praveen, Rishabh Bana, and Swaroop Singh**, *Humans*

4:00-4:30 pm  
*Mars-to-Go Mission*

**Donovan Chipman**, *Application of New Technology Developments to the Concept*

**Track 1-D**

**Politics, Finances, Outreach & Culture**

1:00-1:30 pm

**Dr. Jeffrey Bennett**, *Why Education is Important to Mars Missions*

1:30-2:00 pm  
*Mars*

**Todd Gilbert**, *Multi-National Projects: Applying Lessons from Afghanistan to*

2:00-2:30 pm  
*Exploration and How*

**Dr. Humoldt Mandell**, *Poisonous Perceptions Preventing Human Mars to Eliminate the Largest One*

2:30-3:00 pm  
*Specialist: Bridging through Innovative Scientific Research*

**Sandhya Rao and Jayakumar Venkatesan**, *Notion Space Education the Gap between Education and Public Outreach*

3:00-3:30 pm  
*Related Projects*

**Chip Shepherd and Timothy Buli**, *NASA Technologies for Your Mars-*

3:30-4:00 pm

**Dan Wilcox**, *Robotcowboy: Onward to Mars*

4:00-4:30 pm  
*Bootstrap Space*

**Lennart Lopin**, *Marscoin: A Cryptocurrency Exploring Private Funding to Colonization*

**Evening Plenary & Panels, Crystal Ballroom**

7:00-8:00 pm

**Bas Lansdorp**

*Mars One Planning & Settlement*

CEO Mars One

8:00-9:00 pm

*Who are the Mars One Colonist Candidates?*

Moderator: William Dunlap

Panelists: First Lt Heidi Beemer, Max Fagin, Randall Paylor, Kay Radzik  
Warren, Sue Anne Pien, Etsuko Shimabukuro, Cody Don Reeder.

9:00 -10:00 pm     Panel: *The One Way Mission to Mars; Is Going One Way the Best Way? Can  
Private Ventures Do It?*

Panelists: TBA

**Friday, August 8**

**Morning Plenaries, Crystal Ballroom**

9:00 am - 12:00 pm

**Harold “Sonny” White**                      *Highly Advanced Space Propulsion Systems*

NASA Johnson Space Center

**William Borucki**                              *Kepler Mission Update*

NASA, Ames Research Center

**Dr. Gil Levin**                                 *Mars Viking Missions & Results*

*Arizona State University*

**Todd May**                                      *The Space Launch System, SLS*

Manager, NASA Space Launch System Program, NASA Marshall Spaceflight Center

**12:00 – 1:00 pm Lunch**

**Track 2-A                      Philosophical and Social Aspects of Mars Colonization   Crystal Ballroom**

1:00-1:30 pm     **Dr. Jan Millsapps**, *Making a Case for the Female Martian*

1:30-2:00 pm     **Rt. Rev James Heiser**, *Mars Settlement and the Survival of Civilization – Why  
the “Lifeboat” is about more than Survival.*

2:00-2:30 pm     **Marvin Hilton**, *Exploring Mars to Improve Life on Earth*

2:30-3:00 pm     **Miguel Cooper**, *1492-2024: From Europe to the New World and from Earth to*

**Mars – Comparing the Risks and Goals of Two Endeavors**

3:00-3:30 pm **Mihail Mateev**, *The Limits of the Human Domain from a Christian Perspective*

3:30-4:00 pm **Peter Merkle**, *Sustainable Mars*

4:00-4:30 pm **Andrew Gray**, *A Concept for Living on Mars*

**Track 2-B Advanced Concepts Amphitheater**

1:00-1:30 pm **Kent Nebergall**, *Here to Ceres: Immediately Advancing a Solar System Economy*

1:30-2:00 pm **Dr. Alexander Kazykin**, presented by Dr. Alla Malko, *Prognostication of Advanced Trends in Technique and Technology of Interstellar Flights.*

2:00-2:30 pm **Walter Rowntree**, *Update on Fusion Power from the Dense Plasma Focus*

2:30-3:00 pm **Donovan Chipman**, *The Wheel Ship: A Deep Space Solar electric Vehicle for Long Term Use*

3:00-3:30 pm **William Gardiner**, *Re-entering Life on Mars: The Possibility of Indefinite Life Extension in the Controlled Environmental Life Support Systems that will be Developed both for Travel to Mars and for Living on Mars.*

3:30-4:00 pm **Andre Caminoa and Giorgio Gavraghi**, *The Print/Build System and It's Utilization in Space as a Game Changer.*

4:00-4:30 pm **Dr. John Brandenburg**, *Anomalous Nuclear Events on Mars in the Past*

4:30-5:00 pm **Roberto Campailla**, *Electric Lifting System for Mars Exploration*

**Track 2-C Technologies for Mars Exploration-2 Hunt Room**

1:00-1:30 pm **S.N. D'Souza and N.Sarigul-Klijn**, *Improving Future Mars Return Vehicle by Integrating Flight Feasible Trajectory in Design*

1:30-2:00 pm **Andre Caminoa and Giorgio Gaviraghi**. *Mars Plus: A Human Round-trip to Mars in 2018-2020*

2:00-2:30 pm **Jorge Mirez, Gerardo Portilla Tuesta & Teofilo Cortez**, *Proposal of One Camilla Mobility Astronaut on Mars Surface*

2:30-3:00 pm **Chip Shepherd**, *The International Space Station Refrigerator/Freezer Rack and Artificial Gravity for Initial Mars Missions*

3:00-4:30 pm      **Miguel Cooper**, *2024-2027 A Mars Odyssey*

**Track 2-D      Mars Settlement**

1:00-1:30 pm      **Todd Gilbert**, *Creating an Industrial Ecology for Sustainable Habitation of Mars.*

1:30-2:00 pm      **Darlene Denis**, *M1Vi: Experimental Resource-Based Human Settlement*

2:00-2:30 pm      **Kent Nebergall**, *Modular Mars Analog Settlements: Beyond the Lander*

2:30-3:00 pm      **Joseph Nathan Edwards**, *Qualities of the Martian Landscape.*

3:00-3:30 pm      **Mina Mukhar, Stephen Bassett & Gary Stephenson**, *Mars Initiative Overview*

3:30-4:00 pm      **Luciana Carrera**, *Ultraviolet Insulating Cover for Greenhouses*

4:00-4:30 pm      **Kyle Flaherty**, *Radio Astronomy   at MDRS*

4:30-5:00 pm      **Joshua MacFie**, *Automated Environmental Accuracy and Efficiency*

**Evening Panels, Crystal Ballroom**

7:00-8:00 pm      *The Zubrin / Chang-Diaz Debate - “Is Electric Propulsion an Enabling Technology for Mars Exploration”*

8:00-9:00 pm      *What should be the next steps for Robotic Mars Exploration?*

Panelists: **TBD**

**Evening Entertainment**

9:00 pm      TBA

**Saturday, August 9**

**Morning Plenaries Crystal Ballroom**

9:00 am - 12:00 pm

**Dr. Scott Hubbard**      *Affording Mars? The Next Steps*

Former Director of NASA Ames and Mars Program Director

**Dr. Michael Griffin**

Former Administrator, NASA

**Mark Geyer**

*Orion: Countdown to Exploration Flight Test-1*

Orion Program Manager

**James Oberg**

*International Strategies For Mars Mission International*

*Cooperation - Past*

*Lessons versus Past Delusions*

Renowned Space Journalist

**12:00 - 1:00 pm Lunch Break**

**Afternoon - International Inspiration Mars Student Design Contest Oral Presentations, Crystal Ballroom**

1:00 - 5:30 pm (25 minutes per team)

- Adrestia (The Netherlands - Univ. of Delft)
- Delta V (Russia, St. Petersburg National Technical University, Ioffe Physical Technical Institute of the Russian Academy of Sciences )
- Eclipse (U.S. - Univ. of California Davis)
- IMMORTAL (U.S. - Univ. of Illinois)
- Indo-Martian Express (India, Sri Venkateswara College of Engineering)
- Joint Ventures (U.S. - Temple Univ., American Military Univ.)
- Mars 18 (Germany, Univ. of Stuttgart)
- MAVERIC (U.S. - Univ. of Colorado)
- Space is More (Poland - Wroclaw University of Technology)
- Team Kanua (Japan, Keio University, Purdue University, Tohoku University Graduate School of Medicine, International Space University, Nagoya University, Art Center College of Design Tokyo University of Agriculture and Technology, Tokyo Jogakkan College)

**Evening Banquet, Marina Plaza Ballroom**

6:30-11:00 pm

Entertainment

Music from Mars, Everett Gibson: "The Real History of ALH84001"

Featured Speaker

Special Guest: **Dennis Tito, Executive Director, Inspiration Mars**

Announcement of Winners of International Inspiration Mars Student Design Contest





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