

**Tenth International Mars Society Convention
August 30-September 2, 2007
University of California, Los Angeles**

Wednesday, August 29, 2007

4:00 pm – 7:00 pm – Early Registration

Thursday, August 30, 2007

**8:00 a.m. – Conference registration opens
Vendor and Display set-up**

Plenary Talks

9:00 a.m. - Opening Plenary- Dr. Robert Zubrin, President, The Mars Society

10:00 a.m. – Dr. Fuk Li, Director of the Mars Exploration Program at JPL

11:00 a.m. – Elon Musk – CEO and Founder of Space X

Break for lunch

1:00 p.m. – Steve Benner – “Life As We Do Not Know It”

2:00 p.m. – Steve Cook, Manager NASA Ares Launch program

3:00 p.m. – 5:30 p.m. – Track Talks

Evening Entertainment

6:00 p.m. – 8:00 p.m. – Reception

8:00 p.m. – 10:00 p.m. – Panel Discussion – Seeing Red - Engaging the Public Imagination

**Tenth International Mars Society Convention
August 30th-September 2, 2007**

Track Talks, Thursday, August 30th, 2007

| | Track 1- Public Policy and Mars Exploration | Track 2 – Independent Study Projects | Track 4 –In-Situ Resource Utilization | Track 4 – International Cooperation |
|------------------|---|--|---|--|
| 3:00-3:30 | D. Livingston-Reality Check: Public/Private Mars Missions and Development: Drivers for a Space-faring Society and Cutting Edge Programs | M. Ribbens-Microbial Fuel Cells: Supplemental Technology for Space Exploration | T. Muscatello-Integrated Mars In-situ Propellant Production System | D. O'Donnell: Benefit Sharing Rescued: A Policy that Rewards Participation of Developing Countries |
| 3:30-4:00 | B. Leahy-Unleashing the Gen-Y from the Bottle: Marketing Mars to Millennials | M. Ribbens cont. | K. Nations: Harnessing Mars' Vast CO2 Resources | D. O'Donnell: Condominium Infrastructures Sponsored by an International Space Authority |
| 4:00-4:30 | D. O'Donnell-The Space Policy of Incremental Advances by Stepping Stone Strategies | H. Sarper-Two Educational Rovers for the 30 th Anniversary of the Viking Landers | R. Milligan: Martian Cements | D. O'Donnell: International Cooperation Required: the ISDAC |
| 4:30-5:00 | D. Haslam – 32 Minutes Past the Hour | B. and R. Jolitz-The Mars Colonization Vehicle-an Earth-Mars Orbital Asteroid Transportation for Mars Colonization | M. Busch: Extracting Water from Hydrated Minerals in Martian Regolith | M. Bosch: Launch Site Assessment for a Joint US-European Constellation Program |
| 5:00-5:30 | D. Haslam cont. | K. Nebergall-Designing Martian Spacecraft-at Home in Your Space Time | R. Zubrin: | D. O'Donnell: The Space Court |
| 5:30-6:00 | Break | Break | Break | Break |

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Friday, August 31, 2007

**8:00 a.m. – Registration opens
Vendors and Displays**

Plenary Talks

9:00 a.m. – Dr. Penelope Boston

10:00 a.m. – Peter Diamandis, President of the X-Prize Foundation

11:00 a.m. - Dr. Scott Horowitz, NASA Associate Administrator for Exploration

12:00 p.m. – 1:00 p.m. – Lunch break

1:00 p.m. – 2:00 p.m. – Dr. Chris McKay - FMARS Four Month Mission, Science Advisory Group

2:00 p.m. – 6:00 pm – *Track Talks*

Evening Entertainment

7:00 p.m. – Soiree, readings from Martian Poetry and Literature

8:00 p.m. – 8:00 p.m. – Gerry Williams, filmmaker and creator of the MarsMovieGuide.com, presents MARS IN THE MOVIES featuring “A Trip to Mars”

1910 USA (Short, 4 minutes), "Roving Mars" 2006 USA (documentary, 40 minutes) and "Destination: Mars!" 2002 USA (feature film, 80 minutes)

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Track Talks, Friday, August 31st, 2007

| | Track 1 – Get Involved: Projects, Task Forces and Chapters | Track 2 – Infrastructure and Industrial Applications | Track 3- Humans to Mars: Getting there and Staying | Track 4 – The Spaceward Bound Program at MDRS/The University Mars Rover Challenge |
|--------------------|---|---|---|--|
| 2:00 – 2:30 | Chris Carberry – Political Action for Mars Learn how to contact your Congressperson, Become Active in the 2008 Presidential Campaign | E. Colvin: ISS as a Servicing Station for Satellites and Launch Vehicles | R. Bennett: New Martian Landing Technique for Future Missions Insures an Automated, Pinpoint, Cost Effective and Safe Landing on Mars | C. McKay- Spaceward Bound: Field Training for the Next Generation of Space Explorers (45 mins) |
| 2:30 – 3:00 | Political Action Continues | R. Carr-Profitable Exports from Mars | J. Wynne: Thermal Behavior of Earth Caves and Possible Cave-like Structures detected on Mars | McKay cont. J. Rask-Spaceward Bound Field Training Curriculum for Moon and Mars Analog Environments |
| 3:00-3:30 | P. Czarnik-Chapter Organization Make your local chapter count, outreach and organization | D. O'Donnell: Lunar Economic Development Authority 10 Year Report: Build a Mars Cycler Orbiter | P. McCormick-Health Concerns in the Human Colonization of Mars | Rask cont. (45 mins) |
| 3:30-4:00 | Chapter Organization cont. | F. Crossman: A Study of Industrial Processing at the 4Frontiers Gen 2 Permanent Mars Settlement | B. Mackenzie: Mars Homestead Plains Settlement | S. Davis-Spaceward Bound Robotic Vehicle Project |
| 4:00-4:30 | T. Muscatello: The Mars Society Terraforming Task Force | R. Milligan: Organic Chemical Synthesis on Mars | I. O'Neill: A Possible Solar Activity Early- Warning System for Future Mars Settlements | P. de Leon-NDX-1 Planetary Space Suit Tests during SWB Crew 61 at MDRS |
| 4:30-5:00 | P. Graham: Do you have what it takes to be a Mars Crew Engineer? | D.L. Wilkinson: Asteroid Mining Exploration Group | B. Mackenzie-First Families on Mars Discussion | K. Sloan-The University Rover Challenge |

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|------------------|---|---|--|------------------------------|
| 5:00-5:30 | K. Sloan, A. Kirk, J. Lagarde, B. Mackenzie, M. Zubrin: Get involved: Website and E-List, Marketing, Fund-raising, Conference Planning | F. Crossman: Analysis of the Energy/Power Requirements and Imported Equipment Mass for Industrial Process at the 4Frontiers Gen 2 Permanent Mars Settlement | J. Brown: A Mars Direct Type Habitat is Needed Now and We Need to Stop Wasting the Health of our Hero Astronauts | U of Nevada, Reno Rover Team |
| 5:30-6:00 | Get involved cont. | Open | M.K. Shrivastava: Possibilities of Terraforming Mars | BYU Rover Team |

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Saturday, September 1, 2007

8:00 a.m. – Registration opens
Vendors and Displays

Plenary Talks

9:00 a.m. – Dr. Buzz Aldrin

10:00 a.m. – Dr. Carolyn Porco, Cassini Imaging Team

11:00 a.m. – Dr. Mike Managa, “The Oceans of Mars”

12:00 p.m. – 1:00 p.m. – Lunch break

1:00 p.m. – 2:00 p.m. – Melissa Battler, Commander, FMARS-Xtreme

2:00 p.m. – 5:30 pm – *Track Talks*

2:00 p.m. – 5:00 p.m. Steering Committee Meeting

Evening Entertainment

6:30 p.m. – 11:00 p.m. – Annual Mars Society Banquet and Awards Dinner

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Track Talks, Saturday, September 1, 2007

| | Track 1-FMARS Four Month Analog Simulation | Track 2 – Mission Plans and Launch Vehicles | Track 3- Robotic Assistants, Rovers and Integrated Systems | Track 4 – Spacesuit Design |
|--------------------|---|--|---|------------------------------------|
| 2:00 – 2:30 | P. Graham: FMARS AET: “the Good, the Bad, the Very Ugly” or | D. O’Donnell: The Mars Cycler Orbiter: Purpose, Function and Mission | W. Clancey: Mobile Agents Integrate Astronauts, Rover and | G. Fisher-Astronaut’s Un-glove Box |

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|--------------------|--|--|---|---|
| | “What I did on my Summer Vacation” | | Mission Support in Desert-Rats Mission Simulation | |
| 2:30 – 3:00 | P. Graham cont. | K. Nebergall: Spacecraft and Small Base Geometries | N. Chapin: Integration to Increase the Return from Mars Exploration Missions | L. Kuznetz- Legaci and Violet, Spacesuit Watchdog for the Moon and Mars |
| 3:00-3:30 | K. Binsted: Food Stocking and Preparation Strategies under Long-duration Mission Constraints: a report from FMARS 2007 | R. Colon: Finally, we are going back to Mars!! | J. Whitehead: Robotic Mars Ascent-A Major Challenge | L. Kuznetz cont. |
| 3:30-4:00 | K. Bywaters: Winter to Spring Transition on Devon Island | E. Boethin: Update on Progress on HLV Development | G. Groemer- PolAres: an Integrated Mars Expedition Field Simulation | P. de Leon-Liquid Cooling Garment for the Mars Planetary Space Suit |
| 4:00-4:30 | J. Lapierre: Countermeasures to Stress and Isolation Related to Long Term Working in Extreme Environments | K. Nebergall: Project Rigel: Mars Sample Return Design | D. Gage: iMars: The Paperless Planet (Computing, Communications, Sensing and Robotic Support for Human Mars Exploration | L. Riofrio -Counter-pressure Space Suit System |
| 4:30-5:00 | R. Kobrick: 2007 Human Factors Research at FMARS | Open | J. Whitehead: a Miniature Launch Vehicle for Robotic Mars Departure | Open |
| 5:00-5:30 | J. Harris: FMARS Engineering Operations: A View from the Top of the World | R. Zubrin – The Mars Parasail | Open | Open |

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Sunday, September 2, 2007

8:00 a.m. – Registration opens
Vendors and Displays

Plenary Talks

9:00 a.m. – Bishop James Heiser – “Virtue and The Settlement of a New World”

10:00 a.m. – Lou Friedman, Executive Director, The Planetary Society

11:00 a.m. – Meet the FMARS Crew

12:00 p.m. – 1:00 p.m. – Lunch break

1:00 p.m. – 4:00 p.m. – *Track Talks*

4:00 p.m. – 5:00 p.m. – Closing Plenary Tenth International Mars Society Convention

August 30th-September 2, 2007

Track Talks, Sunday, September 2, 2007

| | Track 1- Mars Analog Research Stations | Track 2 – Philosophical Musings about Mars | Track 3- Keeping the Dream Alive: Mars and Education | Track 4 – Law and Governance |
|-------------|---|---|--|---|
| 1:00-1:30 | T. Muscatello: An Overview of the 2006-2007 MDRS Season and the 2007 FMARS Season | G. Frederick-Earth as Organism...Humans As? | B. McNally: MarsEd Review and the Next Possibilities Exploration Session | D. O'Donnell: Strange Ideas with Traditional Roots |
| 1:30-2:00 | P. Graham: MDRS MOD3: The Building of a Hab, part 3 | J. Fitzimmons: Towards a Transhumanist Mars | B. McNally cont. | D. O'Donnell: Treaty vs. Contract: The Space Authority will prefer Non-Treaty Contracts |
| 2:00 – 2:30 | G. Groener: AustroMars: Preliminary Results from a High Fidelity MDRS-simulation involving 145 Volunteers | D. Layton: The Symbolism of Mars Exploration? | B. Bruner: Large Life Dreams for Mars: 1843 to 1964 | J.J. Hurtak: Evidence of Water Sites on Mars: The Legal Ramifications and Treaty Regimes: |
| 2:30 – 3:00 | E. Colvin: MDRS Crew 60: Mars Society Georgia Tech | D. Quintana: What Would Ferdinand and Isabella or Thomas Jefferson do | B. Mackenzie: MarsPedia: Reference Website | D. O'Donnell: The All Aboard Award |
| 3:00-3:30 | Open | J. Eggleton: Rational Thinking in a New World | N. Dodds: How to Attract Youngsters into Solar System Exploration and Settlement Careers | Open |
| 3:30-4:00 | Open | Open | D. O'Donnell: Continuing Space Education: an International Requirement | Open |