

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. – 7:30 p.m. – Reception

7:30 – 8:30p.m. John Geoghegan – “Hollywood Attacks – the Sequel”

8:30 – 10:00 p.m. – Panel Discussion – Seeing Red - Engaging the Public Imagination

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Track Talks, Thursday, August 30th, 2007

	Track 1- Public Policy and Mars Exploration	Track 2 – Independent Study Projects	Track 3–In-Situ Resource Utilization	Track 4 – International Cooperation	Track 5 – The University Mars Rover Challenge
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	K. Sloan - The University Rover Challenge: 2007 Review & 2008 Preview
3:30-4:00	B. Leahy-Unleashing the Gen-Y from the Bottle: Marketing Mars to Millenials	M. Ribbens cont.	K. Nations: Harnessing Mars' Vast CO2 Resources	D. O'Donnell: Condominium Infrastructures Sponsored by an International Space Authority	The University Rover Challenge: Experiences of the University of Nevada, Reno
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	M. Bosch: Launch Site Assessment for a Joint US-European Constellation Program D.	Experience of BYU team at the 2007 University Rover Challenge
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	O'Donnell: International Cooperation Required: the ISDAC	UCLA 2007 University Rover Challenge Team
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	Open
5:30-6:00	Break	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
2:00 – 2:30	Chris Carberry – Political Action for Mars Learn how to contact our 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	Open
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	Open
5:30-6:00	Get involved cont.	open	M.K. Shrivastava: Possibilities of Terraforming Mars	open

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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/Biomedical Factors
2:00 – 2:30	P. Graham: FMARS AET: “the Good, the Bad, the Very Ugly” or “What I did on my Summer Vacation”	D. O’Donnell: the Mars Cycler Orbiter: Purpose, Function and Mission	W. Clancey: Mobile Agents Integrate Astronauts, Rover and Mission Support in Desert-Rats Mission Simulation	G. Fisher-Astronaut’s Un-glove Box
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	M. Bamsey - Long Duration Water Utilization Study Conducted at FMARS	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	W. Rowe – Mechanisms for severe hypertension with exposure to Mars/Moon dust
5:00-5:30	J. Harris: FMARS Engineering Operations: A View from the Top of the World	R. Zubrin – The Mars Parasail	open	T. Czarnik-

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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
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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	J. Lapierre: Countermeasures to Stress and Isolation Related to Long Term Working in Extreme Environments	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