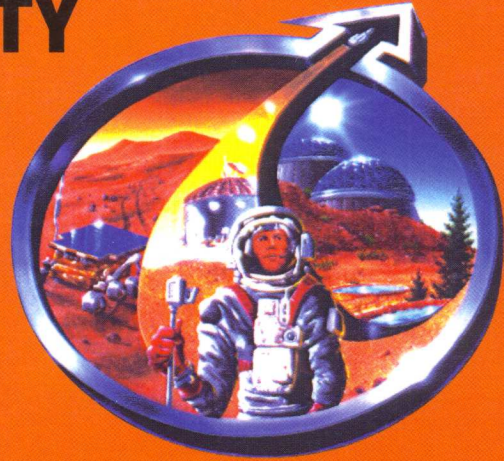


THE FOUNDING CONVENTION OF THE MARS SOCIETY

August 13-16, 1998



The Mars Society Founding Convention - Schedule of Session

Wednesday - August 12th

4:00 pm Offsite Pre-registration
to 9 pm

Thursday - August 13th

7:00 Registration
opens

Plenary Sessions

9:00	Robert Zubrin	Humans to Mars within a Decade
10:00	Everett K Gibson	Biogenic Activity in Martian Meteorites
11:00	Bob Manning	NASA's Robotic Mars Exploration Program
11:30	Pascal Lee	An Arctic Mars Base
12:00	break	
1:00	Jacques Blamont	Exploring Mars with Balloons / France and the US together to Mars

Track 1A - Concepts for
Privately Funded Mars
Missions

2:00	Ed Hudgins	Thinking about Martian Economics
2:30	Stewart Money	Privately Financing a Mars Expedition - Olympic Model
3:00	Thomas Svitek	Possible Design of First Privately-Funded Mars Surface Exploration Probe: Ruthless Minimalism Approach
3:30	Chris Cowlin	Paying for the Greatest Adventure in Human History
4:00	George Osorio	Funding the First Human Expedition to Mars
4:30	Jim Beyer	Paying for the Trip
5:00	David M. Livingston	The Business of Commercializing Space
5:30	Open	

Track 2A – Mars Science
and robotic exploration

2:00	Albert Haldemann	The Mars Pathfinder Mission and Science Results
2:30	Peter Smith	The Martian Dust Cycle
3:00	David A. Paige	Mars Volatiles and Climate Surveyor Integrated Payload for the Mars Polar Lander Mission
3:30	Dr. W. Thomas Pike	Mars Environmental Compatibility Assessment - Identifying the Hazards of the Martian Soil
4:00	Professor M. A. Mosalam Shaltout	Sahara Campaign for Field Testing of Mars Exploration Instruments for 2001-2005 Mission Rovers
4:30	Fab Pirondini	Marsplane
5:00	Curt Mileikowsky	Experimental Investigation of the Survival of Bacillus Subtilis Spores and Vegetative Cells and of Deinococcus Radiodurans, Accelerated with Short Rise Times to Peak Accelerations of...
5:30	Open	

Track 3A - Human
Exploration of Mars

2:00	George William Herbert	One Way and Back: An Introduction to Comparative Missionology
2:30	Chris Hirata	Free-Return Trajectories for Mars Missions
3:00	Roy Clymer	Self-selected Crews for Mars Exploration
3:30	B. N. Kiforenko, et al	A Revolutionary Idea of Space Transportation System for Long Term Manned Missions using Active Jettisoning of the Waste from Life Support
4:00	Kurt Micheels	An RLV/Shuttle Compatible Mars Exploration Plan
4:30	Alastair Browne	A Permanent Moon Base and a Mission to Mars

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5:00	J.D. and H.L. Beegle	New Directions: Reevaluating the Lunar Refueling Option
5:30	open	
Track 4A - Use of Local Resources		
2:00	M.R. Grover/Adam Bruckner	Extraction of Atmospheric Water on Mars in Support of the NASA Mars Reference Mission
2:30	John E. Finn et al	Acquiring the Mars Atmosphere using Diurnal Temperature Swing Absorption
3:00	Sanders Rosenberg	Development of Integrated Petrochemical MFG...
3:30	David Seymour	Producing a Brick from a Simulated Material Theorized to Exist on Mars
4:00	Kristian Pauly	A Comparison of ISRU Options for the First Human Mission to Mars
4:30	David Buehler	Near Term Economics of Water Extraction from Martian Moons
5:00	Iskander Gokalp	Metal/CO2 Propellants
5:30	open	
Track 5A - Generating Public Support for Mars Exploration		
2:00	Humbolt Mandell	Yes, but Do People Support Us
2:30	Sam Burbank	Arguments for Mars
3:00	James E. Ball	Mars Outreach at the Kennedy Space Center Visitors Center
3:30	Matt Jardin	Mars Needs Guitars
4:00	T. A. Gunn	Planet Mars Home Page - Selected Observations
4:30	Jonathan Stabb	Making it Happen
5:00	Eligar Sadel	Establishing a Human Mission from Planet Earth...
5:30	open	
Evening Events		
6:00	Reception with food and drink	
8:00 Evening Panel A - The Next Steps in Mars Exploration		
	John Connolly	The Use of Robotic Precursors to Open the Way to Human Mars Exploration
	Lowell Wood	The Olympia Project - an Inexpensive, Permanent Mars Base
	Bruce Jakowsky	Mars as a Suspect for Life
	Larry Lemke	Mars Airplanes: For 2003 and beyond
	Carol Stoker	Humans and telerobots: Together to Mars
10:00	Sessions end	
11:00	Facilities Close	
Friday - August 14th		
Plenary Sessions		
9:00	Mike Griffin	Starting a New Era of Exploration
10:00	Astronaut John Young	Special plenary talk
11:00	Matt Golombek	The Pathfinder Mission
Brown Bag Lunch Event		
12:00	Peter Perrine	Forum - The Race to Settle Mars, Earth having a Baby
Track 1B - Private Funding for Mars Mission		
1:00	Richard Allen Brown	Mars Bonds: A Tool for Private Colonization of Mars
1:30	Alex Duncan	The Mars Lotto
2:00	Edward Kiker	Private Mars Landing: Fast Initial Return on Investment
2:30	John Coston	Conducting Mars Exploration on a Private Basis
3:00	T. A. Gunn	Private Sector Mars Issues - Wake Up Call for Non-government Participation
3:30	Lester Kuhl	The Economics of Mars Colonization

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4:00	Keith Parton	Entrepreneurial Opportunities from the Colonization of Mars
4:30	Michael Bosch	A Sponsoring Concept for Manned Missions to Mars
5:00	Rich Doran Sr.	Cost Containment for a Thrust Into Space
5:30	Open	
Track 2B - Mars and Education		
1:00	Robert Markley	Mars: A Cultural and Scientific History Interactive DVD
1:30	Larry Payne	The Frontier of Mars as an Agriscience Classroom
2:00	Gabriel Rshaid	Teaching from Mars
2:30	Jonathon Smith and James Bishop	Aresam: Student Concept for Future Mars Space Station
3:00	Charmin Gerardy	Growing the Future
3:30	Mark E.Bohne	Our Future on Mars from my Perspective as a 12 Year Old
4:00	Thomas W. Becker	Secondary Mars Education: Faster, Better, Cheaper
4:30	Bruce Mackenzie	Mars Society's Research and Education Center - Design Session
5:00	Donald M. Scott	untitled - Mars Educational Resources
5:30	open	
Track 3B - Terraforming Mars		
1:00	Chris McKay	Greenhouse Models for Terraforming Mars
1:30	Dr. Julian Hiscox	Ecosynthesis on Mars - the Problem of Water
2:00	James Graham	Physiological Ecology of Terrestrial Microbes on a Terraformed Mars
2:30	Richard Miller	An Ecological Approach to Terraforming, Mapping the..
3:00	Patrick Whittome	Terraforming Mars - Reactivating the Hydrosphere
3:30	Mark Northcott	untitled - Terraforming Mars
4:00	Charles Hancox	Terraformation of Mars
4:30	Dennis Schneider	Cryptoendolithic Microorganisms as...Colonizers of Mars
5:00	Rudy Behrens	Post Colonial Mars
5:30	open	
Track 4B – Advanced Propulsion		
1:00	Stanley V. Gunn	Nuclear Thermal Rocket - An Established Space Propulsion Technology
1:30	Michael G. Houts et al	Fission Rockets for Advanced Space Exploration
2:00	Dr. Ronald J. Lipinski et al	Nuclear Electric Propulsion Architecture for Human Mars Exploration
2:30	Terry Kammash	Manned Missions to Mars with the Gasdynamic Mirror..
3:00	Amanda J. Gilbert	Exploration of Mass-Based Alternative Propulsion Systems
3:30	Tony Rusi	FRC Fusion Based Rocket Propulsion: Mars in Three Weeks?
4:00	Russ Joyner	ESCORT Pratt and Whitney's Design for a Modern Nuclear Thermal Rocket
4:30	Benjamin Donahue	Human Mars Mission Architecture Assessments
5:00	Bryan Palaszewski	High Orbital Microgravity Environments
5:30	open	
Track 5B – International Cooperation for Mars Exploration		
1:00	Bruce Lusignan	Mars Together, When and How
1:30	Michael Reichert	Objectives, Feasibility and Costs of an International Manned Mars Mission
2:00	Daryl Hemingway	International Strategies for the Exploration of Mars
2:30	R Heidmann	How Could International Cooperation reinforce case
3:00	Josef Oehman	On the Importance and Duty of Colonizing Mars
3:30	Blaine Thompson	The Politics of a Mars Colony
4:00	Jason Wells	How the Settlement of Mars May Change Humanity

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4:30	Dave Kisor	International Collaboration as a Path to Mars & Beyond
5:00	Larry Kuznetz	Design Projects at UC Berkeley for NASA's HEDS-Up Program
5:30	open	
Evening Events		
7:00	Plenary Panel B - The Ethics of Terraforming	
	Mark Lupisella	The Preservation of Extra Terrestrial Life
	George Smith	Otherland Ethics
	Chris McKay	Ethical Considerations in Planetary Engineering
	Robert Zubrin	The Duty to Terraform
	Alan Marshall	Terraforming Mars: Environmental and Ecological Issues
	Lowell Wood	Terraforming the Planets: I. Mars
	Greg Benford	Terraforming a Cradle for Life
9:00	Sessions End	
11:00	Facilities Close	
Saturday - August 15		
Plenary Sessions		
9:00	Chris McKay	Life on Mars: Past, Present, and Future
10:00	Jim Benson	Mars for Profit
10:30	Rick Tomlinson	Roles for Free Enterprise and Government in opening the space frontier
11:00	Scott Horowitz	Humans to Mars: An Astronaut's View
11:30	Special Guest	Invited Plenary Talk
12:00	Brown Bag Lunch	
Event – New Launch Vehicles for Mars Exploration		
	Bruce Lusignan	SSTO, Pathway to Mars?
	Scott Lowther	Boosters for Manned Missions to Mars, Past, Present and Future
	Gary McPeters	Next Generation Launchers in the Exploration of Mars
Track 1C - In-situ Resource Utilization		
1:00	K.R. Sridhar	Oxygen Generation on Mars Using Solid Oxide Electrolysis
1:30	Brian Frankie	Production of Higher Hydrocarbon Species on Mars
2:00	Evgeny Shafirovich	Prospects for the Utilization of CO2/Metal Propulsion on Mars Ascent Vehicles
2:30	Robert L. Ash et al	Oxygen Extraction from Martian Atmosphere using Radio Frequency Discharges
3:00	Bradley Tice	Current Progress in Water Reclamation Technology
3:30	Donald Barker et al	Site Selection on Mars Based on Optimal Collocation of Indigenous resources
4:00	George William Herbert	Phobos on the Cheap
4:30	Geoffrey Landis	Polar Options for a First Mars Expedition
5:00	open	
5:30	open	
Track 2C - The Need for Law on Mars		
1:00	Thomas Quinn	Martian Law: The Case for A Global Democracy
1:30	Ed Hudgins	Martian Law
2:00	Alex Lightman	Red, White and Blue Mars: the Case for American Ownership
2:30	James Hurtak	Legislation and Space Law
3:00	Elliot D Yug	Legal Implications of the Moon Treaty Relative to the Exploration and Settlement of Outer Space
3:30	Declan O'Donnell	Mars Governance
4:00	Robert Zubrin	The Rights of Mars
4:30	Rick Alan	Good Fences Make Good Neighbors
5:00	open	
5:30	open	

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Track 3C – Human Factors in Mars Exploration

1:00	Marilyn Dudley-Rowley	On Our Best Behavior: Optimization of Group Function
1:30	James Funaro	Defining Human Parameters for Offworld Migration
2:00	Lara Battles	What Do you Do after You Leave Earth Orbit? Or Coping with the Enforced Intimacy of Spaceflight
2:30	Mary Ellen Symanski	The Case for Nurses as Key Contributors to Mars Exploration Teams
3:00	Dennis Pelaccio	What is Acceptable Technical Risk to Commit to a Piloted Mars Mission
3:30	Bradley Tice	Man and Extended Pace flight: Mental and Phys
4:00	Paul Van Steensburg	Who Should Go to Mars
4:30	Chris Barnes	The Doorstep of a New Era
5:00	open	
5:30	open	

Track 4C - Biomedical Issues and Life Support Technology

1:00	Dr. Ronald J. Lipinski et al	Radiation Health Effects: Update
1:30	Thomas Burke	NO Means they can go
2:00	Dr. Thomas Alred	Medical Considerations in the Colonization of Mars
2:30	Anthony Muscatello	Nutritional Supplements as Radio Protectors
3:00	Amy Davis	The Effects of Variable Gravity on the Life cycle of the Tenebrio Mollitar
3:30	Dennis Pelowitz et al	Radiation Shielding on Planetary Surfaces
4:00	Erik Seedhouse	Running to Mars
4:30	William Little	Bioregenerative Life Support Technology and the Mars..
Plenary Panel C	Jeffrey A. Jones et-al	Special Plenary Panel on Life Science Issues
5:00		
5:30	Jeffrey A. Jones et-al	Special Plenary Panel on Life Science Issues – continued to 6:45
6:00		
6:30		

Track 5C - Robotic Examination of Mars, Results and Future Plans

1:00	Dr. Julian Hiscox	ALH84001 and the RNA World
1:30	Curt Mileikowsky	Natural Transfer of viable Microbes in Space
2:00	Claude-Alain Roten	Interplanetary Biological Transfer: Impact Resistance
2:30	Geoffrey Landis	Experiments on the Mars ISPP Precursor Package on the Mars 2001 Survey
3:00	Albert Haldemann	Rock Statistics at the Mars Pathfinder Landing Site
3:30	Michael Allison	Toward Real-time Global Weather Forecasting and Atmospheric Climate Retrievals for Mars
4:00	John Paterson	Soil Sampling on Mars
4:30	Antonio de Morais	A Robotic Mission to Mars Based on Three Radio-Linked Minispacecrafts
5:00	open	
5:30	open	

Track 6C Mars Society Steering Committee Meeting 1- 5 PM

Mars Society Steering Committee	Turning a Movement into an Organization
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Evening Events 7:00 Mars Society Banquet

Mars Society Steering Committee	The Hakluyt Prize
Mars Society Assembled	Founding Declaration of the Mars Society
Mars Society Assembled	Open Forum: What is to be Done?

10:00 Banquet ends

11:00 Facilities Close

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Sunday - August 16th

Plenary Sessions

9:00	Lowell Wood	Pilgrims to Mars: An Early 21st Century Mayflower Program
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Track 1D - Mars and the Arts

10:00	Thomas Quinn	Terraforming Mars and Bioartistry
10:30	James Pruet	Sport vs Space
11:00	Richard Poss	Sense of the Sacred: The Martian Landscape in Visual Art
11:30	Frederick Turner	Mars Genesis

Track 2D - Philosophical Impact of Mars Exploration

10:00	Richard A Jones	Martian Equality
10:30	Marilyn Dudley-Rowley	The Outward Course of Empire: The Hard, cold ...
11:00	Bruce N. Anderson	Global Dialogue toward the Genesis of Life on Mars and Beyond
11:30	Katherine Osborne	The Ethical Ramifications of Discovering Life on Mars

Track 3D - Mars Base Technology

10:00	Brian Frankie	Drilling Operations to Support Human Mars Missions
10:30	Stewart Money	Design Considerations for a Mars Tractor
11:00	Jenine Abarbanel	Inflatable Structures for a Permanent Martian colony
11:30	Geoffrey Landis	Photovoltaic Power on Mars

Track 4D - Mars and Public Policy

10:00	Victoria P. Friedensen	Space Exploration, Technology Choice and Social Protest: Is the only way to get there the wrong way?
10:30	Robert E. Becker	Is there a Short-Term Economic and Social Justification for Human Exploration and Settlement of Mars?
11:00	Dr. Fred Kelly	Why NASA Might Never Launch a Manned Mission...
11:30	Phil Turek	A Socially Supportable Mars Colonization Program

Track 5D - Timekeeping and Calendar Systems for Mars

10:00	Lance Laspina	SCDTL Calendar and Clock for Mars
10:30	Nachum Dershowitz et al	A Terrestrial Calendar for Mars
11:00	Kandis Elliot and James Graham	Millennium Mars Calendar
11:30	Michael Allison	A Mars Proleptic Calendar and Sol-Date Timing Reference

12:00 break

Track 1E – Mission Operations and Autonomous Systems

1:00	Ken Peek	Mars Mission Operations
1:30	Tom Gangale	MARSSAT: Assured communication with Mars
2:00	Ned Chapin	Using Cots Software for mars Missions
2:30	Greg Perugini	Computerization, Fuzzy Logic and Fault Tolerance
3:00	Dr. Gregory Dorais	Adjustable Autonomy for Human-Centered Autonomous Systems
3:30	James Kurien	Model-based Autonomy for Robust Mars Operations
4:00	Kanna Rajan	Automatic Onboard Planning and Scheduling for Deep Space Missions
4:30	Rich Washington	Autonomous Rovers for Human Exploration of Mars

Track 2E - The Human Need to Explore and the Significance of the Martian Frontier

1:00	Richard Poss	Reassessing the Human Condition: Philosophical Aspects of Mars Exploration
1:30	Donald Barker et al	Martian Exploration and Related Terrestrial Social Returns
2:00	E. G. Petrakakis	Mars Exploration - the Survival of our Civilization
2:30	Frederick Turner	Mars' Place in the Evolution of Human Culture

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3:00	Rev. James D. Heiser	A Shining City on a Higher Hill: Lessons from the Last
3:30	Eldon Gatlin	Benefits of Opening a Frontier
4:00	George T. Whitesides	The Gen-X Rallying Cry? To Mars!
4:30	Vernard Foley	The Likely Influence of the Martian Frontier on Technological Progress..
Track 3E - Options for Producing Power on Mars		
1:00	Michael G. Houts et al	The Heatpipe Power system: A Near-term, Low-cost Space fission Power Supply
1:30	Dave Poston	Utilizing the Heatpipe Power System on the Surface of Mars
2:00	Dr. Ronald J. Lipinski et al	Comparison of Mars Surface Power Options
2:30	Gregory Chamitoff et al	Surviving on Mars without Nuclear Energy
3:00	Micky Bagdero	Martian Power
3:30	Dr. Mitchell R. Swartz	Fusion and Martian Terraforming
4:00	Jim Bickford	A Stepped Approach to the Moon and Mars
4:30	E. Sarmont	Affordable Spaceflight
Track 4E - Long Range Mobility on Mars		
1:00	W. Klimkiewicz et al	Rolling on Martian Air-The Forgotten Axis
1:30	Holly Trelue et al	Design of a Nuclear-Powered Rover for Lunar or Martian Exploration
2:00	F. Cojocar and C.D. Sava	Autonomous Flying Robots-the Next Step for Systematic Mars Exploration
2:30	Tony Rusi	Mars Surface Transportation: Is Flying Cheaper than Building Roads?
3:00	George William Herbert	Mobility of Large Manned Rovers on Mars
3:30	Frank J. Crary	Long Range Surface Traverses during Early Mars Missions
4:00	Paul Swift	Rovers and Airplanes on Mars
4:30	open	
Track 5E - Future Exploration and Mission Concepts		
1:00	Pablo Flores	Navigation and Mobility Systems Architecture for ...
1:30	Stephen B. Heppe	A Novel Space Transportation Concept Designed to Minimize the Cost of Mars Settlement...
2:00	Russell Mellon	Reducing Risk and Complexity of Rover and Robotic
2:30	Antonio de Morais	A Mission to Mars with Two chimpanzees before the First Human Mission to that Planet
3:00	J. Miraglia	Modeling and Simulation of a Pressure Feed System Rocket Engine to Use in Mars Ascent Vehicle
3:30	Russell Joyner	Methane/Oxygen Rocket Engines for Use of Mars
4:00	Robert Zubrin	Mars Gas Hopper: A key Component for Mars Surface
4:30	open	
Closing Plenary		
5:00 Plenary Panel E	Members of the Steering Committee	Onward to Mars!
5:30		
6:00	Conference Ends	