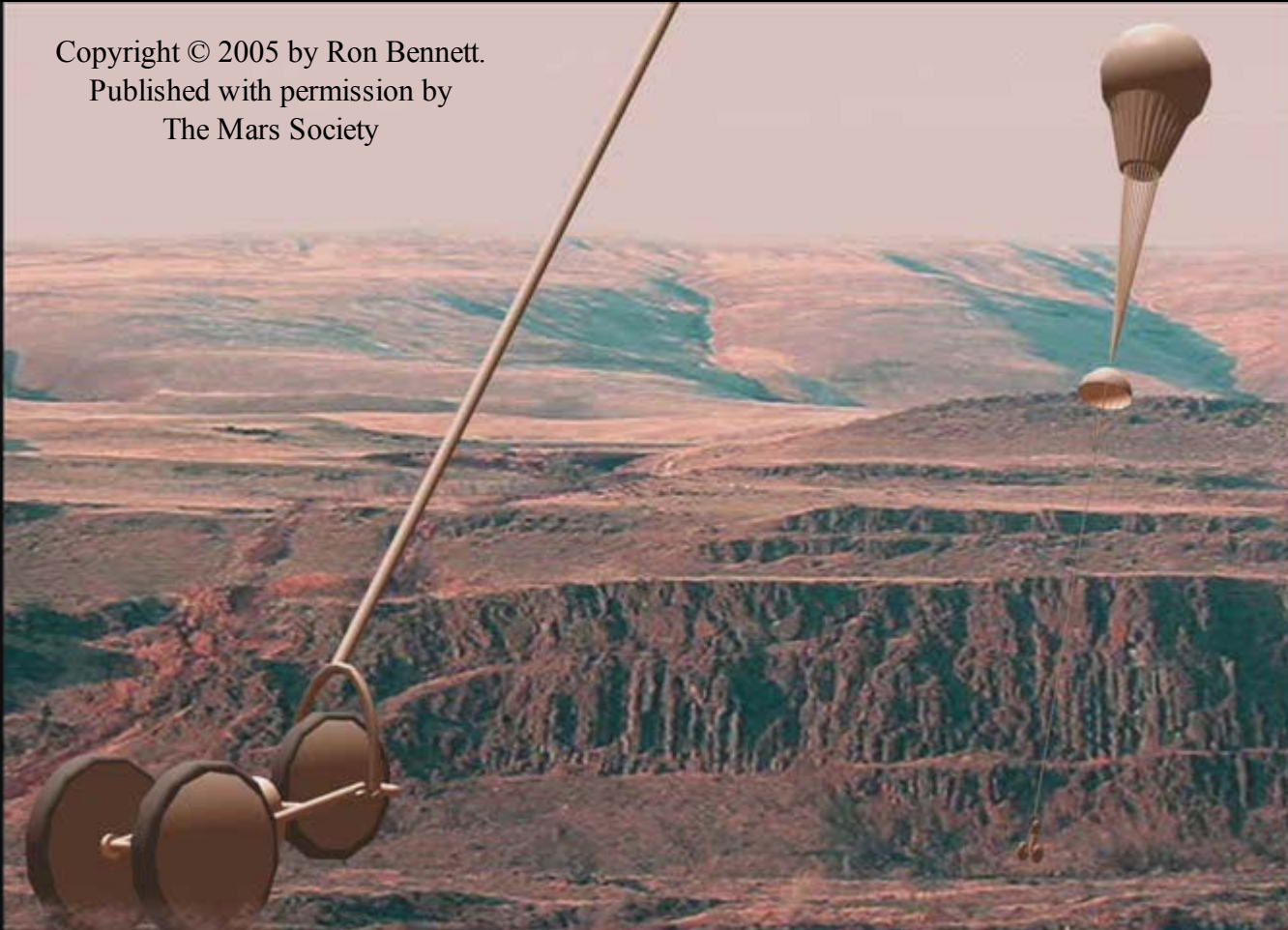


Commercially Funded Robotic Expedition 2005 Mars Society Presentation

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ABSTRACT

Adventure Rides And Theater Quality Video Made From Footage Of Mars By A Commercially Funded Robotic Expedition

By Ron Bennett

Send to Mars a fully commercially funded mission primarily sent to view the wonders of Mars with Imax theater like motion picture quality images that will help invigorate and accelerate future generation of explorers to want to explore the solar system. To make this happen there would have to be a state of the art light weight satellite and ground communication link to handle the high amount of data that will be sent back to Earth, similar to the ones developed by Boeing to transmit full length movies to theaters on Earth.

By working with some of the pioneers in this field from JPL, ESA, industry and academics that brought us the satellite images, Viking, Pathfinder and Opportunity-Spirit rovers we can help insure a more successful mission. This movie of Mars made by a ground hugging low flying balloon like the Martian Windsurfer first proposed in 2003 or Martian airplane imaging the Martian surface below in true color as it moves across the landscape. The private funded mission would be funded by several cost sharing commercial partners such as is done for the Olympics, a commercial “Olympiad of Mars.”

Some Ideas To Make This Happen

- A Mars exploratory rover and or balloon would travel over, or just above the surface of Mars, while sending back IMAX high definition type moving motion pictures broadcasted through a satellite placed in geostationary orbit. The Balloon / Rover would broadcast to the satellite that is placed in orbit around Mars and then beamed back to Earth.
- The cost of a privately funded mission to Mars would be shared by several different sponsors including Martian amusement park like rides (Disneyland or Universal Studios), Mars documentary (a Titanic type movie), Imax planetarium viewing movies, the next generation of Pepsi drinkers, Internet real-time viewing through sponsored sites and movie producers who would want a more exacting landscape to use for the Martian background, something that no one has ever seen before until the movie is released.
- Hollywood has brought us many movies of Mars surface by helping us visualize what they thought the surface should look like. We have discovered through the help of robotic rovers and human made exploratory satellites that Mars is much more diverse and unique than even the best Hollywood made movie could portray. To view awe inspiring real life movies moving across the surface of Mars would inspire future generations to help accelerate the human exploration of Mars.

The Vision

Commercial Benefits Of A Robotic Mission To Mars

- Exclusive Footage of Mars Imax Cinema Type Motion Picture
- Internet – Access Of some Sponsors On Their Website To Current Movement With Less Detail Color Images
- Walt Disneyland and Universal Studios Wild Adventures Rides
- Documentary
- Exclusive Movies Made With A Section Of The film Showing Some Of The Natural wonders Of Mars
- Video Games Made With Actual Background Images From Mars – Get To The Highest Level To Unseen Movie Clips Of The Rover Moving Over The Martian Surface.



Obstacles to Overcome

Funding Roadblocks

Cost

Public Support

Digital Camera Equipment

Data Transmission Rates



How Do We Get Aw-inspiring True Color Motion Pictures Back From Mars Of The Martian Surface

**Instruments that can be use that would be in motion for the
moving experience on the surface of Mars???**

**Mechanical robotic rover, low ground hugging wind driven
balloon / blimp or a winged craft**

- How do we transmit such a high rate of information (bandwidth) from Mars approximately 4K – 1 to 10 Gigs per sec that fits in the window that fills an Imax screen
- Do we also consider 3D digital imaging that is becoming popular at some of the Imax theaters?



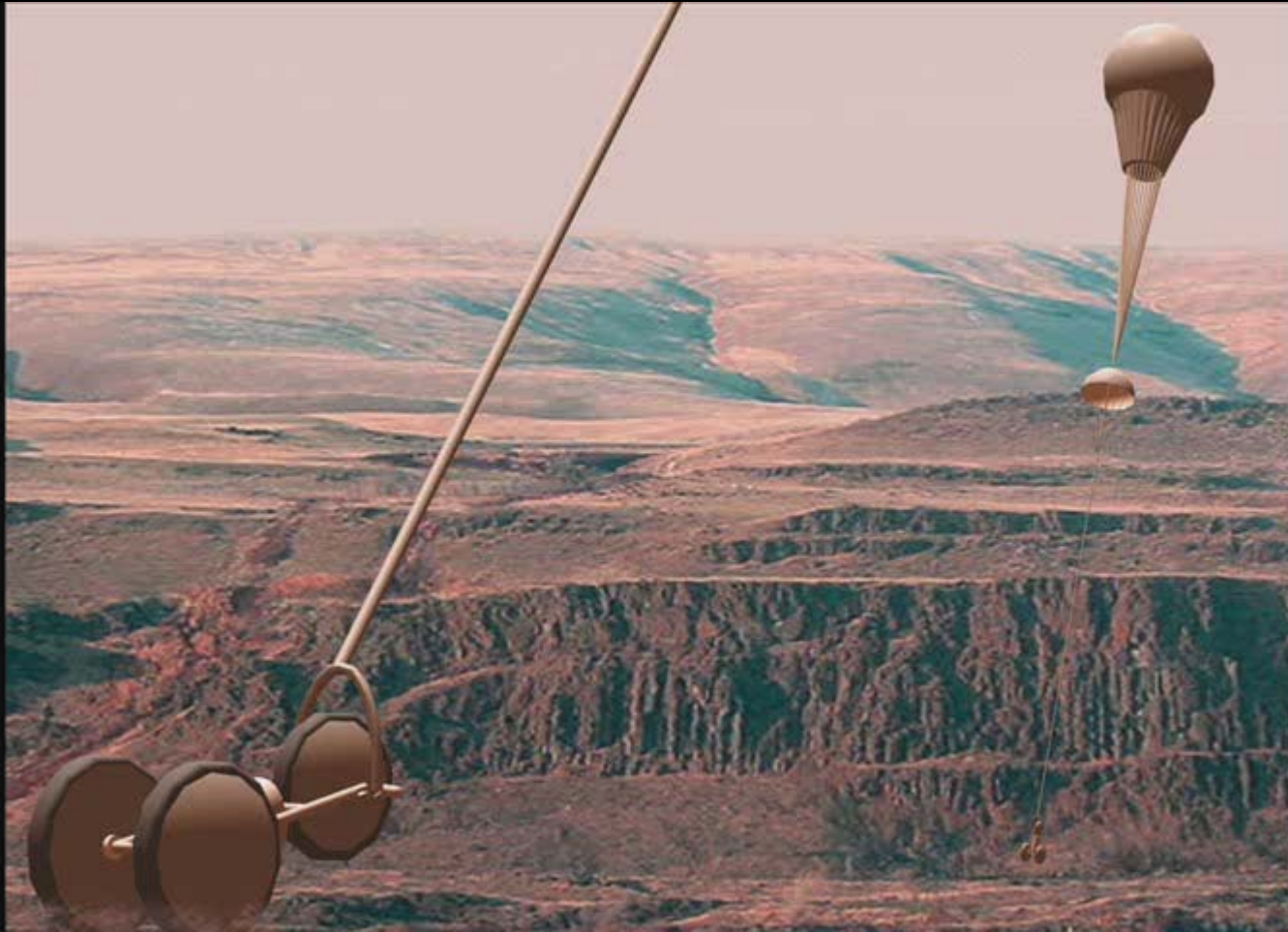
Objective

- **Feasibility study**
- **Take the temperature of the public and potential commercial sponsors interest**
- **Study different digital formats and digital transmission rates (Do we store data to broadcast later or bounce it directly back to Earth.**
- **Set vehicle construction timelines, budgetary restraints, and Launch window goals**
- **Launch vehicle selection – cost of a dependable launch vehicle Boeing – Lockheed – ESA**
- **Imax Theater Like Motion pictures with 3D**



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