Mars Public Engagement Overview

HEND Conference
Russia/June 2005

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NASA MISSION and MARS PUBLIC ENGAGEMENT GOAL

To understand and protect our home planet
To explore the Universe and search for life
To inspire the next generation of explorers
TWO-PART VISION

To Share the Adventure
by creating direct opportunities for public participation

To Make Mars a Real Place
by providing direct and "virtual" experiences
CUSTOMER FOCUS

Formal Education
Kindergarten (5 years old) - Community College Students/Teachers

Informal Education
Museum and Planetarium Partners

Public Outreach
Internet, Commercial Partners (Media is separate)

Hiking Boots Required: tough trekking in the name of science education - Mar 4, 2005
During a three-day Mars Remote Sensing Teacher Institute, educators pant, sweat, and occasionally bleed as they hike up Granite Wash Mountain to learn about Mars.

May 19, 2005
Mars scientists and engineers reach thousands of educators each year at regional and national conferences around the United States, which are hands-on, inquiry-based opportunities for teachers to learn about science and technology and improve their instructional capabilities.
The Imagine Mars Project is a science, technology and arts initiative that guides students to create a community on Mars. This program ties to NASA's long-term vision for human exploration.
This educational effort, tied to technology education standards, provides real-world experiences with rovers and robotics to encourage students in science, engineering and mathematics.

PROGRESSIVE LEARNING
Elementary:
  Basics of robotic construction & manipulation
Middle:
  More complexity with computer-controlled robotics
High-school:
  Large-scale, self-built robots

Educator Workshops  Role-modeling web casts  3-D Computer Modeling
Students conduct authentic research with NASA data, improving their capabilities and confidence in science, technology, engineering, and math.
This program offers opportunities for students (grades 5-14) to participate in authentic science research using a camera on the Mars Odyssey Orbiter.
RUSSIAN STUDENT PARTICIPATION

INTERNATIONAL PARTICIPATION

Link Russian teams with US teams

Meeting June 9 with local teachers
Students send rocks from their world region and compare them to those of other students' and to those of Mars scientists studying Mars.

**Current Totals**

- Rocks Received: 6457
- Pictures Online: 6271
- Spectra Collected: 5968
Our museum alliance provides nationwide, "big screen, front seat" participation in Mars Exploration through real-time delivery of images and training sessions with scientists and engineers. **120 MEMBERS**

Image credit: Exploratorium

Image credits: Chabot
LEGO Toy Models from their Discovery Series: "Mission to Mars" includes a Mars Exploration Rover, a Mars Odyssey Orbiter and a Delta rocket (417 pieces)

LEGO Mars Exploration Rover is a detailed replica featuring LEGO TECHNIC elements (857 pieces)

high-quality, desk-top-sized commemorative model also in works from another company (potentially affordable for small museums)

potential Disney commercialization item(s), currently undefined, but in association with Epcot exhibit
2001 Mars Odyssey

OVERVIEW SCIENCE TECHNOLOGY THE MISSION PEOPLE FEATURES EVENTS MULTIMEDIA

Mars for Kids ➤ Mars for Students ➤ Mars for Educators ➤ Mars for Press ➤

Mars Home ➤ Odyssey Home ➤

Home

1289 Days in Orbit
Where is Odyssey now?
(Updated every ten minutes)

MISSION NEWS

Mars Odyssey Begins Overtime After Successful Mission
06.25.04

NASA's Mars Odyssey team begins working overtime today after completing a prime mission that discovered clues to the presence of frozen water - a key clue to the potential for future habitability, and trapped surface features and minerals all over Mars, among other goals.

Happy Anniversary Odyssey - 4/7/05

Four years ago on April 7, 2001, the mechanics, scientists, engineers and family members of the Odyssey orbiter team said a final farewell to their creation and hello to Mars. Don't miss the video, "An Odyssey of Exploration," for the groundbreaking discovery launch.

Hiking Boots Required: tough trekking in the name of science education - Mar 4, 2005

During a three-day Mars Remote Sensing Teacher Institute, educators panted, exerted, and occasionally bleed as they hike up Grand Wash Mountain to learn about Mars. ➤

Mars Odyssey Begins Overtime After Successful Mission - Aug 25, 2004

Odyssey begins working overtime after completing a prime mission filled with discoveries. ➤

Mars Exploration Program

http://marsprogram.jpl.nasa.gov
http://marsprogram.jpl.nasa.gov/odyssey
http://www.nasa.gov
GOAL: Improve and rigorously evaluate programs to ensure they are reaching diverse student populations and equitably enhancing the quality of science, mathematics, and technology education.