Implementing the Vision
2nd Space Exploration Conference

Advanced Human and Robotic Technologies

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Robotic Precursor Missions

- Provide early information for human missions
- Resolve the many unknowns at the North and South Poles
- Enable capable and sustainable exploration
Human Research to Enable Exploration

Program Goals:

• To understand and reduce spaceflight human health and performance risks in support of exploration

• Enable development of human spaceflight medical and human performance standards

• Develop and validate technologies that serve to reduce medical risks
Technology Development Program: Objectives

- The Technology Development Program matures advanced technologies, integrates component technologies into prototype systems and transitions technology to Constellation and Robotic missions.
Desert “RATS” Participants

K-10 ARC

Meteor Crater Arizona, 9/2006

ATHLETE JPL

SCOUT JSC

Centaur JSC

Suits JSC

PRC LaRC

Implementing the Vision
Surface Scenario Video
Scope of the Panel Discussion

Discussion on extending human presence across the solar system and beyond through:

- Implementing a sustained and affordable human and robotic program
- Develop supporting innovative technologies, knowledge, and infrastructures
- Incorporating them into the appropriate Constellation projects.