



3RD SPACE EXPLORATION CONFERENCE & EXHIBIT

Project Orion and America's Space Exploration Program Transition

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Constellation: Defining Our Course to the Future



- **America's transition to a new era of Space Exploration**
 - Shuttle/ISS transition to Orion/Ares I and V, Earth Departure Stage, Lunar Lander and Outpost
 - Space operations and ground processing transition to design and development
 - Low Earth Orbit operations transition to missions exploring the moon, Mars and other destinations
- **Constellation provides the over-riding architecture guiding our nation's transition in space**
 - Identifies individual project elements
 - Provides both near-term capabilities and an integrated systems framework bridging to future capabilities and systems

Orion Crew Exploration Vehicle – 2007 Accomplishments



- **First year record of tremendous progress**
 - Successful SDR
 - Agreement with NASA on design Point of Departure
 - First delivery of Orion support hardware
 - Subsystem and System level testing
 - Exploration Development Laboratory
- **Public Awareness and Political Advocacy**
 - Industry collaboration and leadership in Coalition for Space Exploration and Citizens for Space Exploration
 - Education outreach events at QPMRs (Phoenix, Hartford, Sacramento)
 - NASA 50th Anniversary Lecture Series with Mike Griffin (NASA Administrator), Eric Schmidt (CEO, Google) and Stephen Hawking (Physicist)

Orion Crew Exploration Vehicle – 2008 Opportunities & Challenges



- **The “Road to PDR”**
- **Abort Launch System – Pad Abort 1 Test**
- **O&C Facility at Kennedy Space Center**
- **Trade Studies and design options**
- **Block upgrade strategy**

Conclusion



- **America's future in space is exciting and promising**
- **Constellation is the right architecture for moving forward to a new era of space exploration**
- **Orion Crew Exploration Vehicle is the flagship of our nation's future in space**
- **Public awareness and political support efforts are key to ensuring sustained program success**