



A Renewed Spirit of Discovery

**Commission for Moon,
Mars, and Beyond**

**Ray Ernst
AIA Space Council Chair
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What is AIA?

- 3M
- American Pacific
- Analytical Graphics
- Aerojet
- ATK
- BAE SYSTEMS
- Ball Aerospace
- B.H. Aircraft
- Boeing
- Curtiss-Wright
- Ducommun
- Dupont
- General Dynamics
- General Electric
- GKN Aerospace
- Goodrich
- Harris
- Hexcel
- Honeywell
- ITT
- Kistler Aerospace
- L-3 Communications
- Lockheed Martin
- MOOG
- Northrop Grumman
- Orbital Sciences
- Parker Aerospace
- Raytheon
- Rockwell Collins
- Rolls Royce
- Spectrum Astro
- Swales
- United Technologies
- Vought
- W.L. Gore

Plus 204 other U.S. Aerospace Manufacturers

AIA's Overall View of the President's Vision

- Excellent vision
 - Extends far into the future
 - Pulls many programs together with a new goal
- Funding path
 - Mapped Out
 - Achievable
- Will excite students
- Will sustain the workforce
- Will strengthen the industrial base

Consistent with AIA Positions

What AIA Has Asked For - 2002

- Comprehensive Space Transportation Plan
 - Identify near-term issues accompanied by specific, directed actions to resolve these issues
 - Outline mid-term and long-term objectives – over a 20 year or greater horizon
 - Provide a road map specifying how the objectives will be met
 - The plan should be updated at reasonable intervals and should be a collaborative government-industry effort

***The President's Space Vision accomplishes this
for space exploration***

What AIA Has Asked For - 2002

- Investment by the USG in space-related S&T
 - Restore to levels that will support technological and economic progress
- U.S. Space Workforce/Industrial Base
 - Increase the number of science missions
- Procurement strategies
 - Rely on firm, contractual commitments

***The President's Space Vision helps
In all three areas***

What AIA Has Asked For - 2003

- AIA Top Ten Issue for 2004
 - Develop a National Strategy for a Next-Generation Human Rated Space Vehicle
- AIA Election 2004 Issue
 - Commit to Replacing the Space Shuttle with a Modern Human Space Transportation System

***The President's Space Vision accomplishes
both of these and goes farther***

Areas for Consideration

- **Emphasize U.S. Capabilities**
 - Consider impacts of international cooperation on U.S. industrial base
 - Servicing ISS, especially 2010-2014
 - Incorporate U.S. assets into overall space transportation plan as it develops
 - Broaden commercial incentives
- **Continue to maintain a balance between robotic and human missions**
- **Other NASA missions important to U.S. leadership – maintain stable funding**
 - Earth Science and Aeronautics
- **NASA cooperation with other agencies**
 - Leverage Technology and Infrastructure

In Conclusion

- Space Exploration is a long-term endeavor
 - Requires long-term vision, long-term funding, and long-term development
- NASA's new exploration plan provides a long-term roadmap
 - Justifies long-term investment in technology, people, and infrastructure
 - Will help industry plan and invest wisely to meet the needs of the nation
 - Will inspire students and public support

The Member Companies of AIA look forward to working with this Commission, NASA, and Congress to bring this new vision to fruition