Presentation to the National Council of Space Grant Directors

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October 27, 2006
New York City
The Current Environment

• Clear vision and common direction in alignment with the Vision for Space Exploration (Done)
• Demonstrate outcomes and deliver results from our programs (In progress)
• Share success stories and value of NASA Education and Space Grant with key constituents (esp. MSIs, OMB, Congress, White House, industry) (In progress)
• Address the realignment of projects to the Centers and the establishment of a new Office of Education HQ organization structure (In progress)
• Communicate the core competencies that NASA needs in the future (In progress)
Strategic Integration of NASA Education

Vision for Space Exploration

NASA Strategic Plan

Education Strategic Framework

NASA Education Program
- 3 Outcomes
- 12 Objectives
- Higher Education
- 81 Measures

Space Grant Goal and Objectives
Elementary/Secondary Education

Higher Education

Outcome 1: Contribute to development of the STEM workforce

Outcome 2: Attract and retain students in STEM disciplines

Outcome 3: Build strategic partnerships and linkages between STEM formal and informal education providers

NASA Education Portfolio Strategic Framework

Principles/Criteria

- Relevance
- NASA Content
- Diversity
- Evaluation
- Continuity
- Partnerships/Sustainability
NASA’s Workforce Needs

**Increasing Civil Service Needs – 2006-2009**
- Systems Engineering/Integration Engineering
- Mission Operations
- Systems Analysis and mission planning
- Quality/safety/performance
- Propulsion systems; rocket propulsion
- Acoustics
- Habitability/Environmental factors
- Program/Project Management

**Future Civil Service Needs – 2010-2011**
- EVA Systems
- Intelligent/Adaptive Systems
- Robotics
- Electrical and Electronic Systems
- Advanced In-Space Propulsion
- Power systems
- Structures, Materials & Mechanics
Space Grant Review Team

- NASA team charted by the Education Coordinating Committee (ECC)
  - Membership: 3 co-chairs plus 5 representatives from Mission Directorates and Centers
- Purpose: Develop a Policy and Guidance document
- Began the dialogue with you after the March meeting
  - Have engaged with ~1/2 of the directors
- Final document due November 30, 2006
The Future

• Space Grant has a unique charter and consequently has a unique role in contributing to the achievement of the NASA Education Goals
• Make sure you have measurable outcomes that reflect the impact of your program
• Align your projects with Education Outcomes
• Continue to develop synergies within the network
• Look for opportunities to leverage connections and develop collaborations throughout the NASA education pipeline
• Link your efforts with the workforce competencies in the NASA Human Capital Plan
• Challenge your assumptions – look for new ways to achieve the Vision