The background of the slide is a photograph taken from space, showing the sun rising over the horizon of the Earth. The sun is a bright, glowing orb in the upper center, with a prominent starburst effect of light rays extending across the dark sky. The Earth's surface is visible below the horizon, showing a mix of blue oceans and brownish-green landmasses. The overall scene is bathed in the warm, golden light of the rising sun.

See Learning in a Whole New Light

Diane D. DeTroye
Acting Manager, Space Grant & EPSCOR
Higher Education Division

September 2003

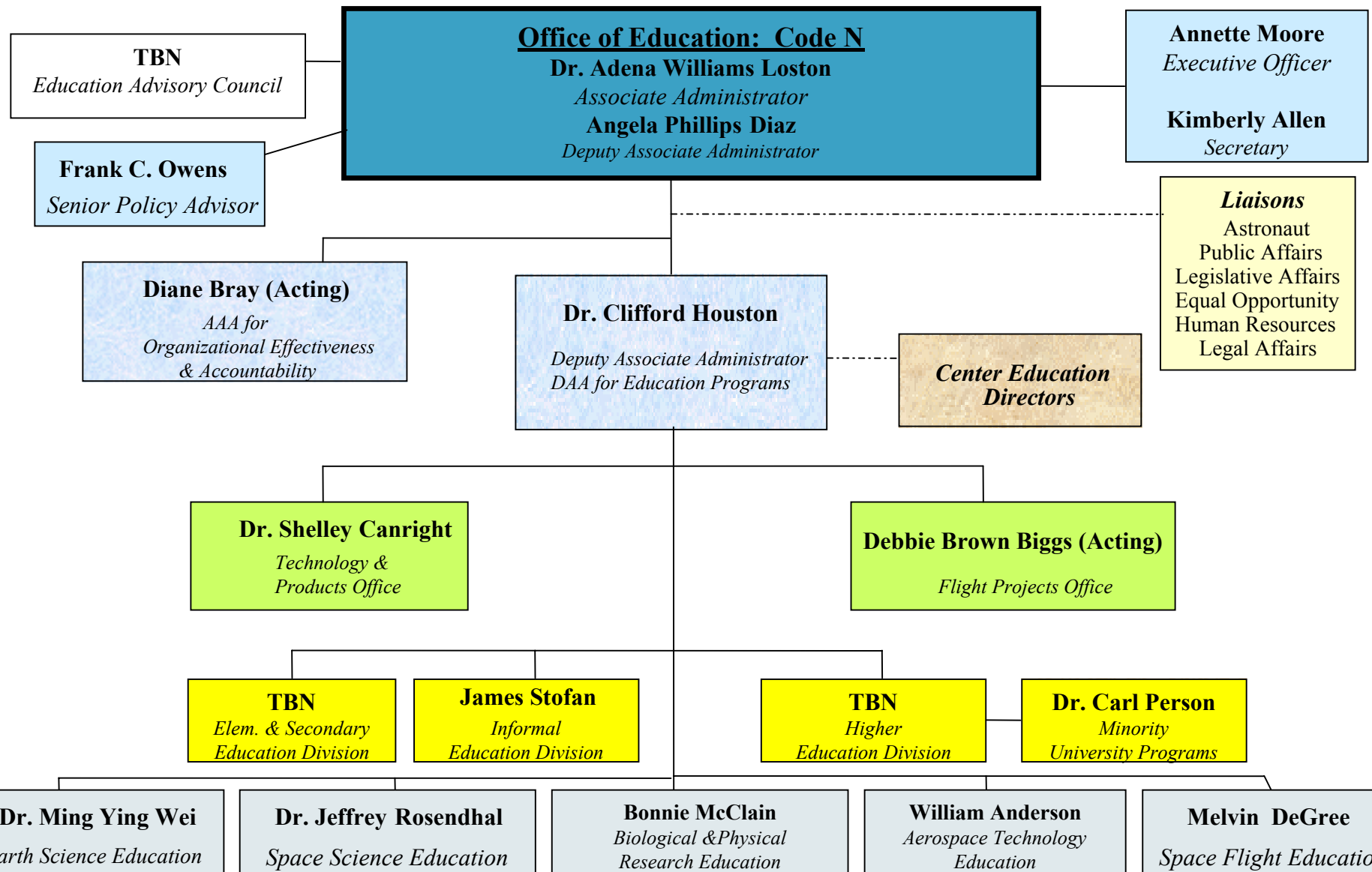


Agenda

- Updated Office of Education Org. Chart
- Update on Pathfinder Initiatives
- Office of Education Program Review (April 2003)
 - Space Grant and EPSCoR results and implications
- Brainstorm – Space Grant Highlights to Office of Education management
- Dr. Loston's visits to the field



Enterprise Organization





Pathfinder Initiative: Educator Astronaut (Pipeline)

- Recruitment Results
 - Over 8881 nominations, produced over 4801 nominees
 - Recruitment efforts resulted in over 1685 resume submissions
- Earth Crew:
 - Over 1600 Teams include over 28000 members
 - Over 1121 Earth Crew mission submissions
- What's Next?
 - Continue with Educator Astronaut selection process
 - Shift program focus from recruitment to engaging the next generation of explorers via the Earth Crew



Pathfinder Initiative: NASA Explorer Schools (Pipeline)

- Provide opportunities to students to explore STEM and geography
- Provide sustained professional development and access to NASA tools and application
- Build strong family involvement components



Pathfinder Initiative: NASA Explorer Schools (Pipeline)

Program Elements

- Customized professional development over 3 years incorporates NASA education programs
- 50 teams selected, representing primarily underserved populations
- Each NES team will develop an action plan targeting high need STEM areas. \$10K per school for implementation.
- Summer '03 workshops at each of the 10 NASA Centers for the NES teams.
- On-line presence of student investigative opportunities, mathematics problem solving and engineering design challenges.

**Announcement of opportunity for new
Explorer Schools was released 9/15/03**



Pathfinder Initiatives Under Development

- **NASA Explorer Institutes: Pipeline**
 - Informal Education Division Director will be leading the development of this effort
- **NASA Science and Technology Scholarship Program: Workforce development**
 - Awaits final legislative language



EVALUATION OF EDUCATION PROGRAMS

April 2003



OMB Budget Language

- “*Develop a means for measuring the impact of the Education initiative on the science, technology, engineering, and math (STEM) student pipeline and a benchmark for measuring success.*”
- “*Undertake a comprehensive review and restructuring of its Education Base and Minority University Research and Education Programs.*”



NASA's Approach

- Strategic Realignment
 - Develop Goals 6 & 7 in NASA's Strategic Plan
 - Address target areas of the NASA Pipeline
 - Align programs to Education Enterprise Initiatives
- Portfolio Management Implementation
 - Evaluation Reviews
 - Performance Metrics
 - Analysis and Redistribution

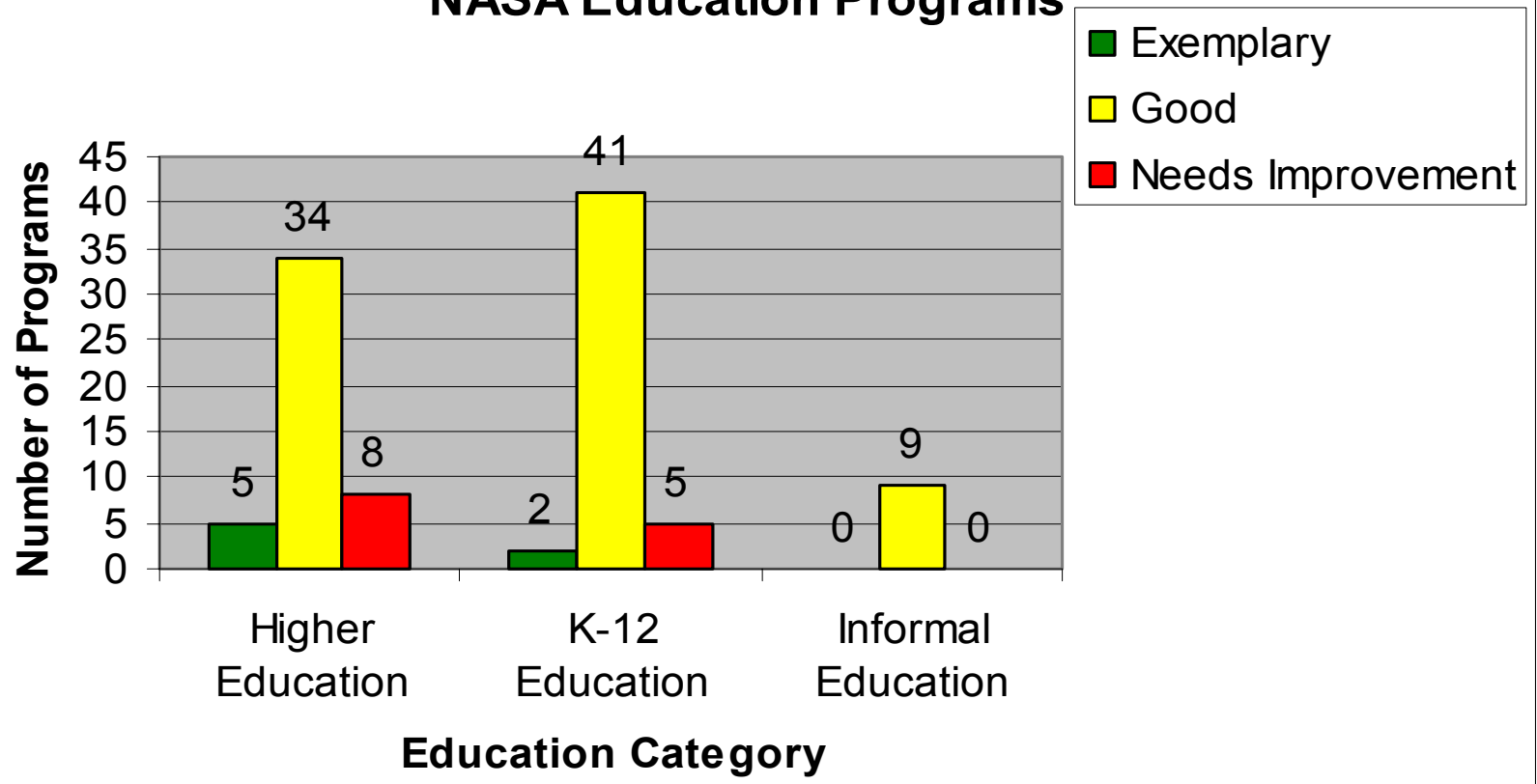


Exemplary Program Criteria

- **Customer-Focused:** Responsiveness to a need identified by the education community, customers or customer group (4 subcriteria)
- **Content:** Percentage use of NASA content, people or facilities to involve students and/or the public in NASA science, engineering, or technology (4 subcriteria)
- **Pipeline:** Contribution to attracting diverse students to NASA careers in science, technology, engineering, or mathematics (3 subcriteria)
- **Diversity:** Outreach to identified targeted groups (5 subcriteria)
- **Evaluation:** Development of goals expressed in an objective, quantifiable, and measurable form (5 subcriteria)
- **Partnerships and Sustainability:** Use of programs/ products by local, regional, or national partners (7 subcriteria)



Categorical Ratings of NASA Education Programs





Overall Evaluation Review Conclusions

- Elements of the education portfolio are performing well and align with the NASA strategic plan
- Most NASA education programs strongly align with and support at least five of the six exemplary program criteria
- Higher Education programs rated highly for Pipeline support (82%) and for Partnerships and Sustainability (80%)
 - At the Elementary and Secondary Education level, the highest rated categories were Content (86%) and Customer-focused (84%)
 - Informal Education programs have a very strong content base (98%) and also reflect strong partnerships (85 %)
- Identified a gap in current NASA educational pipeline (first and second year undergraduate level)



Higher Education Program Scores

April 2003 Review

	Maximum Score							Rank
HIGHER EDUCATION	12	9	12	15	15	21		
Program Title	Customer Focused	Content	Pipeline	Diversity	Evaluation	Partners/Sustainability	Composite Score	
Space Grant	93%	88%	79%	63%	85%	92%	83%	15th of 35
EPSCoR	93%	86%	74%	48%	80%	79%	77%	26th of 35
		Exemplary (100-90%)						
		Good (89-70%)						
		Needs Improvement (69% and below)						



SG & EPSCOR Review Conclusions

- Space Grant was the highest rated non-minority targeted program
- Space Grant and EPSCoR did well in Customer-focused and Content; Space Grant in Partnerships/Sustainability
- There is room for improvement, especially in the area of diversity and pipeline for both programs
- We are awaiting guidance about the development of an Improvement Plan and the evolution of the Exemplary Program Criteria



Redirecting NASA's Education Portfolio

FY03

Total Budget: \$142.8M;
estimate \$26.6 million not fully
aligned with education
objectives



**Annual
Evaluations and
Adjustments**

FY08

Programs fully aligned with
objectives; performance
integrated with budget.



Education Portfolio

Next Steps (FY 04-08)

- Continue Evaluation Process
 - Gap Analysis of Pipeline Programs
 - Identify opportunities for collaboration
 - Program Evaluation and Research
 - Longitudinal Database
- Continue Portfolio Alignment and Assessment
 - Phase out programs that are not within target area
 - Phase out low-scoring and duplicative programs
 - Phase out programs that are non-sustainable
 - Enhance, expand and replicate Exemplary Programs
 - Reallocate funding to target areas of pipeline

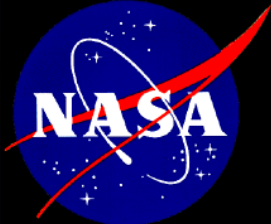


Brainstorming

Space Grant and EPSCoR Highlights to Office of Education management

Categories of Reporting

- “Highlights from Prior Week”
- “Space Shuttle Return to Flight”
- “Upcoming Significant Events”

A wide-angle photograph taken from space, showing the sun rising over the horizon of the Earth. The sun is a bright, multi-pointed starburst in the upper center, casting a long, shimmering path of light across the ocean's surface. The Earth's atmosphere is visible as a thin blue layer above the horizon. The landmasses below are bathed in the golden light of the rising sun, with shadows cast across the terrain. The overall scene is a dramatic and beautiful view of our planet from orbit.

See Learning in a Whole New Light