



NASA Advisory Council

Taskforce on STEM Education Meeting

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Donald G. James

Associate Administrator

for NASA Education



Hello, NAC STEM Education Task Force



Priorities as AA

- Develop and implement NASA's education programs that strengthen student involvement and public awareness about NASA's scientific goals and missions
- Communicate NASA's unique position and capabilities in STEM education
- Lead the Education Coordinating Council
- Co-chair the subcommittee on Federal Coordination-STEM (FC-STEM)

Previous Experience

- Director of the Strategic Communications and Education Directorate at NASA's Ames Research Center in Mountain View, California
- Began NASA career in 1982 as a Presidential Management Intern at the Goddard Space Flight Center in Greenbelt, Maryland
- Served NASA for more than 30 years in numerous capacities, including public affairs, human capital management and strategic communications.
- Senior advisor and executive officer for the NASA Education Enterprise at NASA Headquarters in 2002-2003

NASA Education Components



- **Office of Education, Headquarters**
 - **Associate Administrator for Education**
 - **Deputy Associate Administrator for Education**
 - **Funding Source Managers**
 - **Sr. Advisors**
 - **Four Lines of Business Directors**
 - **Contractor Support Staff**

- **Mission Directorates (MD)**
 - **Aeronautics Research MD**
 - **Human Exploration and Operations MD**
 - **Science MD**
 - **Space Technology MD**

- **Centers Offices of Education**
 - **10 NASA Centers across the country**

NASA Education's Focus Areas



- **Office of Management and Budget (OMB)**
- **STEM Education and Accountability Projects Competition**
- **The National Science and Technology Council (NSTC) Committee on STEM Education or (CoSTEM)**

Co-STEM Priorities

- Improving K-12 STEM teacher education
- Increasing and sustaining engagement in STEM
- Enhancing the STEM experience of undergraduate students
- Better serving groups traditionally underrepresented in STEM fields
- Designing graduate education for tomorrow's STEM workforce

NASA Education's Focus Areas



➤ **Interagency Working Groups (IWGs)**

- STEM Engagement
- P-12 STEM Instruction
- Undergraduate STEM Education
- Graduate STEM Education
- Broadening Participation

➤ **Staffing**

- Available positions

What do the numbers show?...Office of Education Performance Measurement



The **Office of Education Performance Management (OEPM)** provides the OE with a centralized system for Education activity data collection and reporting.

Add Value

- Standardized and controlled data collection and reporting capability
- Business intelligence reports that have reduced reporting response times from weeks to hours

OEPM Sample Data

FY 2013 OEPM Analytical Dashboard	
The number of affiliates	1,591
The total number of NASA student participants who received direct awards	5,108
The total number of NASA student participants that received significant direct awards	3,399
The total number of educators (pre-service and in-service k-12, informal educators, and higher education faculty) that participate in NASA-supported professional development, research and internships	305,936
The number of elementary and secondary students that participate in NASA STEM engagement activities	1,024,449

NASA Education Success Story



- Nicholson Elementary in Picayune, MS, designed an engineering solution to help the city with drainage with the help of NASA.
- Robotic Storm Drain Expedition movie at:
<http://www.samsung.com/us/solvefortomorrow/project/mississippi-robotic-storm-drain-expedition.html>



Thank you!