



**NASA Advisory Council**

**April 10, 2015**

**James L. Stofan**

**Chair, Ad Hoc Task Force  
on STEM Education**



# Task Force Membership



- Dr. Margaret Honey , President and CEO, New York Hall of Science, Chair of NRC Committee Toward Integrated STEM Education: Developing a Research Agenda
- Ms. Aimee Kennedy, Vice President For Education, STEM Learning and Philanthropy, Battelle
- Dr. Anita Krishnamurthi, Vice President, STEM Policy, Afterschool Alliance, Former NASA
- Dr. Michael Lach, Director of STEM Education and Strategic Initiatives, University of Chicago, Former Dept. of Education STEM Advisor
- Mr. Ray Mellado, Founder and Chairman of the Board, Great Minds in STEM
- Dr. Carl Person, Undergraduate Research Preceptor, Fayetteville State University, Former U.S. Department of Education and NASA
- Mr. James Stofan, COO, Defenders of Wildlife, Former NASA

# Terms of Reference



- Ad hoc task force of the NASA Advisory Council (NAC)
- Scope includes all NASA Education programs, projects, missions and activities.
- Meet approximately three times per year, in advance of NAC meetings.
- Report on progress to the NAC

# Charge



- Iterative process over the two-year term of the committee.
- Initial Topics for Task Force Consideration:
  - Position of NASA Education as a leader in CoSTEM
  - Articulation of success using data and story
  - Structure of NASA Education efforts and ability to conduct rigorous program management reviews
  - Sustainability of education program over the next several years
  - Competitive allocation of funds to elicit the best projects
  - Advice on NASA Education Implementation Plan

# Cross Agency STEM Goal Statement



Improve STEM education by implementing the *Federal STEM Education 5-Year Strategic Plan*, announced in May 2013, specifically:\*

- Improve STEM instruction
- Increase and sustain youth and public engagement in STEM
- Enhance STEM experience of undergraduate students
- Better serve groups historically under-represented in STEM fields
- Design graduate education for tomorrow's STEM workforce
- Build new models for leveraging assets and expertise
- Build and use evidence-based approaches

# NASA Strategic Goal 2 & Education Objective



## Strategic Goal 2

Advance understanding of Earth and develop technologies to improve the quality of life on our home planet.

## Objective 2.4

Advance the Nation's STEM education and workforce pipeline by working collaboratively with other agencies to engage students, teachers, and faculty in NASA's missions and unique assets.

# NASA Education Vision & Mission



## NASA Education Vision

To advance high quality STEM education using NASA's unique capabilities.

## NASA Education Mission

**Align** efforts to national priorities and NASA's mission and vision.

**Involve** students, educators, and institutions in NASA's missions.

**Impact** the public using NASA's unique content, people and facilities.



# 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!



REACH  
— NEW —  
HEIGHTS



REVEAL  
— THE —  
UNKNOWN



BENEFIT  
— ALL —  
HUMANKIND

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