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The Next Generation of Explorers



NASA's OFFICE OF STEM ENGAGEMENT UPDATE

NASA ADVISORY COUNCIL STEM ENGAGEMENT COMMITTEE

Dec. 4, 2018

MIKE KINCAID
ASSOCIATE ADMINISTRATOR FOR STEM ENGAGEMENT

NASA's OFFICE OF STEM ENGAGEMENT

STEM Engagement Updates

Transformation

Meeting Agency and CoSTEM Strategies

Members Questions, Feedback, Input



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NASA ADVISORY COUNCIL

STEM ENGAGEMENT COMMITTEE INAUGURAL MEETING

Current Team:



Aimee Kennedy
Vice President, Education STEM Learning & Philanthropy
Battelle Memorial Institute



Michael Lach
Director, STEM Policy & Strategic Initiatives
University of Chicago



Ray Mellado
Founder & Chairman
Great Minds in STEM



Carl Person
Undergraduate Research Preceptor
Fayetteville State University

New Members:



Cristin Dorgelo
President & CEO
Association of Science-Technology Centers



Daniel Dumbacher
Executive Director
American Institute of Aeronautics & Astronautics

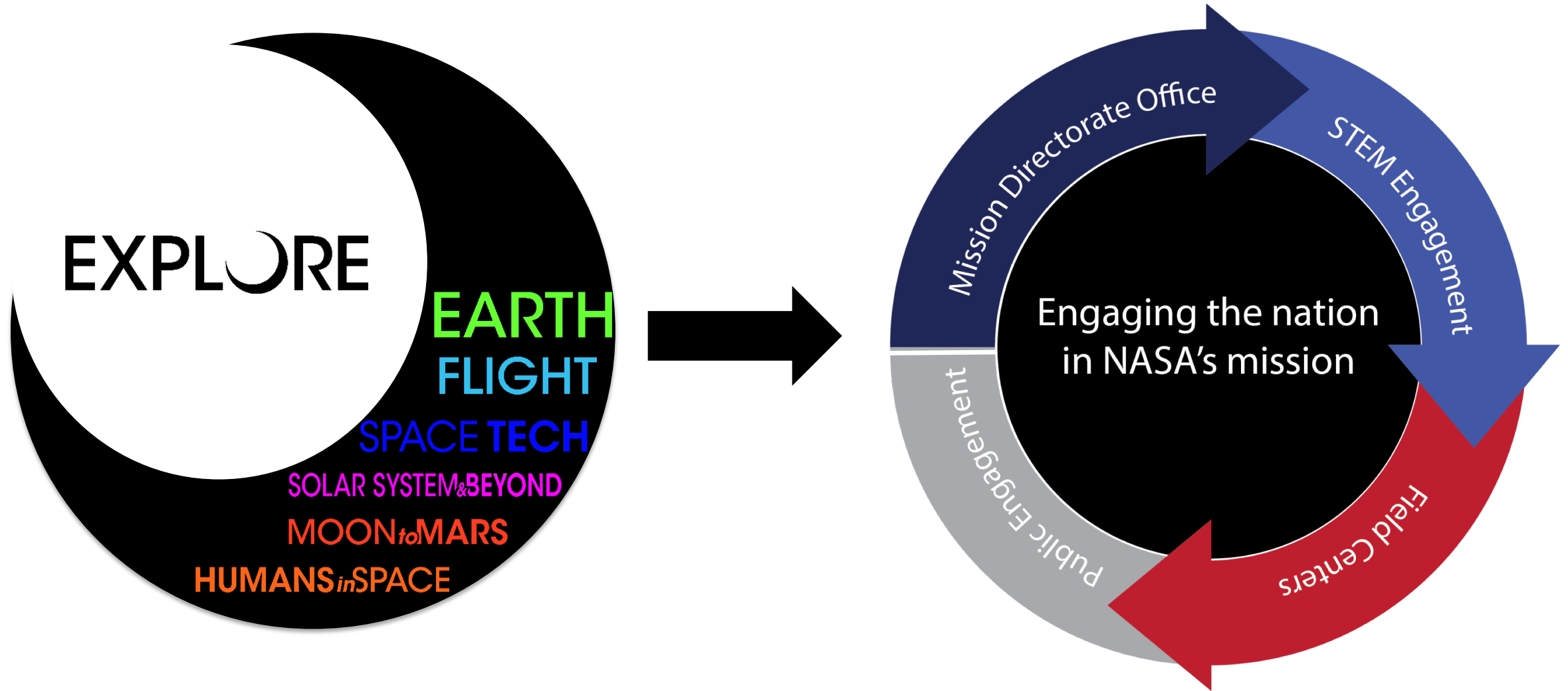


Norman Fortenberry
Executive Director
American Society for Engineering Education



Darryl Williams
Senior Vice President of Science and Education
The Franklin Institute

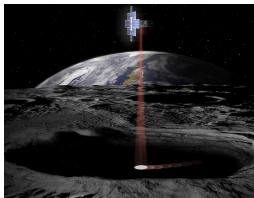
MISSION-DRIVEN STRATEGIC ENGAGEMENT



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Mission-Driven Programs Enabling STEM Engagement

NASA'S THEMATIC AREAS



SPACE GRANT

- National network of 52 Consortia with 850 Affiliate members
- Stimulates cooperative programs among universities, industry, federal/state/local governments
- Encourages interdisciplinary education and research programs
- Incorporates State priorities, needs, and goals

MUREP

- Limited to Minority-Serving Institutions
- Increases retention of underserved and underrepresented groups in STEM
- Enhances infrastructure at MSI institutions
- Portfolio with 7 funded elements

EPSCoR

- 27 eligible jurisdictions (States and Territories)
- Contributes to development of research infrastructure and capabilities
- Fosters partnerships between NASA research entities, industry, and academic institutions
- Incorporates state priorities, needs, and goals

Next Gen STEM

- Informal education and K-12 STEM engagement initiatives aligned to mission priorities
- Richer, more comprehensive STEM engagement opportunities
- NASA's museum alliance

Graduate



Middle School K-Elementary School



High School



Undergraduate



Graduate

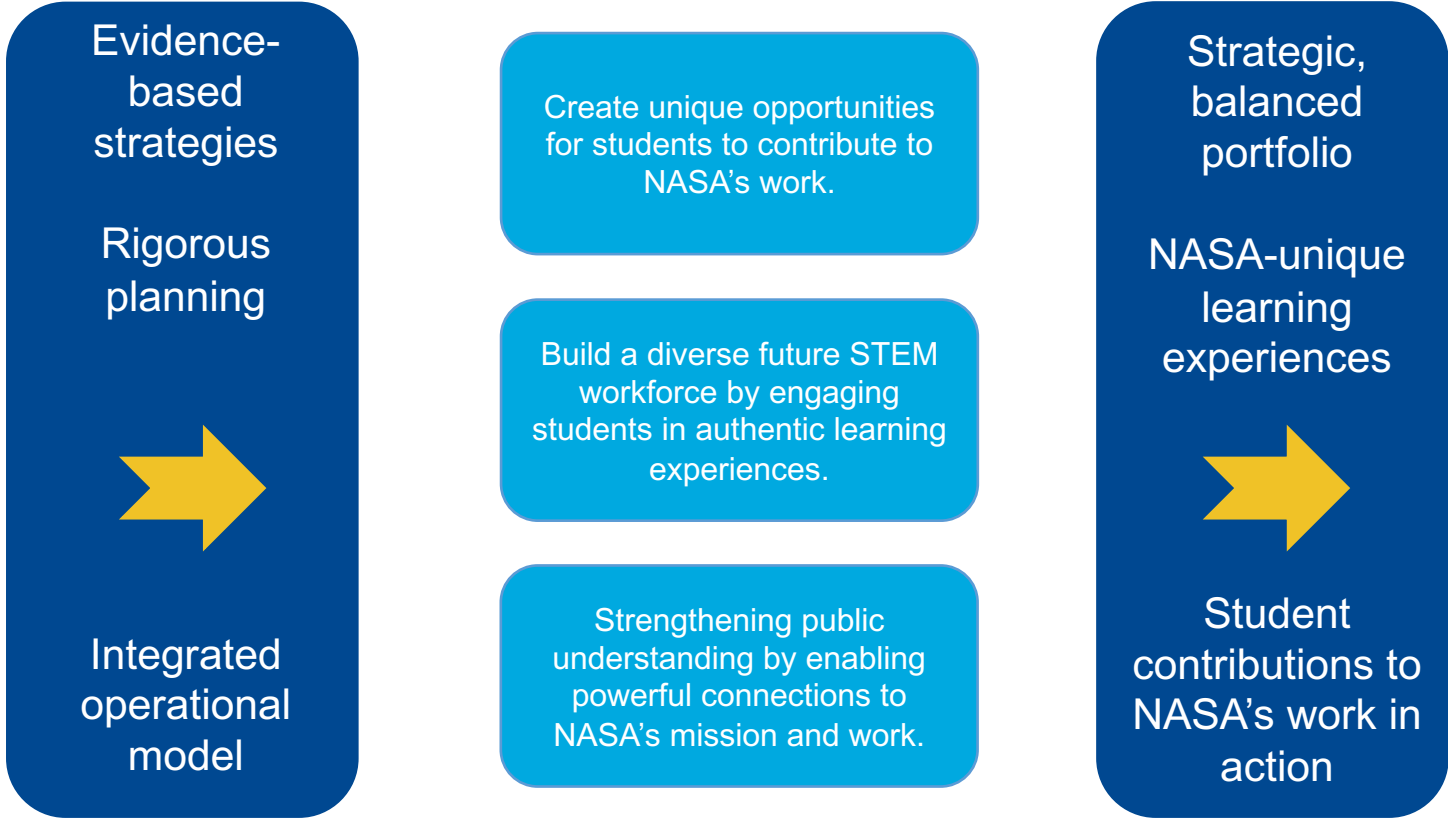


STEM ENGAGEMENT BENEFICIARIES

NEW ARCHITECTURE ENABLING STUDENT OPPORTUNITIES & CONTRIBUTIONS



FOCUS AREAS



SCALABILITY TO MAGNIFY NASA'S REACH AND IMPACT



FEDERAL STEM EDUCATION 5-YEAR STRATEGIC PLAN



CHARTING A COURSE FOR SUCCESS: A FEDERAL STRATEGY FOR STEM EDUCATION

A Report by the
COMMITTEE ON STEM EDUCATION
of the
NATIONAL SCIENCE & TECHNOLOGY COUNCIL

December 2018

Purpose:

Coordinate federal STEM education strategy and investment, and serve as a 'North Star' to guide state and local STEM education initiatives

Opportunity for Agency Input:

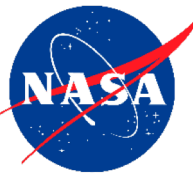
- FC-STEM Agency Meetings: August, September and October
- Co-STEM Meeting: Thursday, November 15th
- FC-STEM Meeting: Friday, November 16th
- Agencies/OMB Review: November 2018
- Roll-out of Strategic Plan: December 4

STEM ENGAGEMENT TRANSFORMATION

FY18 ACCOMPLISHMENTS

Systemic	Programmatic
<ul style="list-style-type: none">✓ Chartered and established STEM Engagement Council. (03/30/18) Convened inaugural session of the Council. (04/12/18)✓ Completed development of new STEM Engagement NASA Policy Directive. (02/21/18) Will undergo formal agency process. (Sep-Oct 2018)✓ Established new Office of STEM Engagement. (effective 08/29/18)✓ Completed definition of new performance measurement and assessment approach. (07/15/18)✓ Conducted analysis of existing infrastructure, tools & systems. (03/15/18)✓ Developed NASA Strategy for STEM Engagement. (Council approval 08/22/18)✓ Streamlined and improved agency websites, platforms and social media tools.✓ Developed and deployed a new NASA Internships and Fellowships website for students.	<ul style="list-style-type: none">✓ Put in place an integrated program management approach for EPSCoR, MUREP and Space Grant, with corresponding staff changes.✓ Overhauled SEAP, incorporating significant changes to approach for awards to informal education institutions (TEAM II) and innovative new mission-driven pilot initiatives.✓ Achieved improvements in interfaces and relationships with Space Grant Consortia and their key stakeholders.✓ Streamlined MUREP with more focused, strategic award initiatives.✓ Incorporated more rigorous, systematic program and fiscal management practices.





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THANK YOU!